Special Pub. 279

DENSITY OF SEA WATER

AT TIDE STATIONS

ATLANTIC COAST

NORTH AND SOUTH AMERICA



Woods Hole Oceanographic Institution

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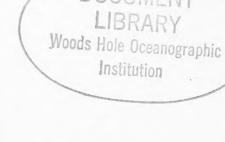
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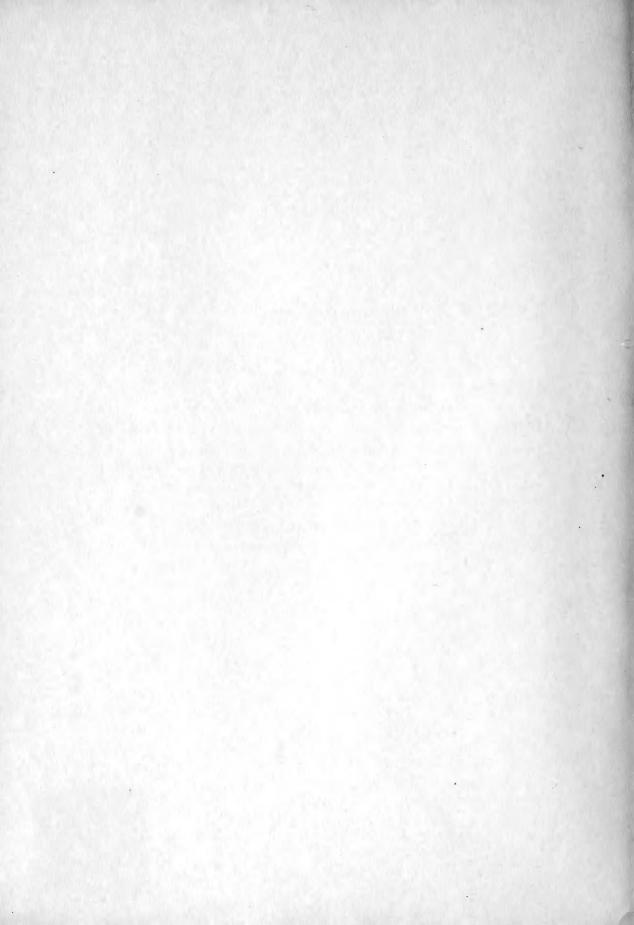
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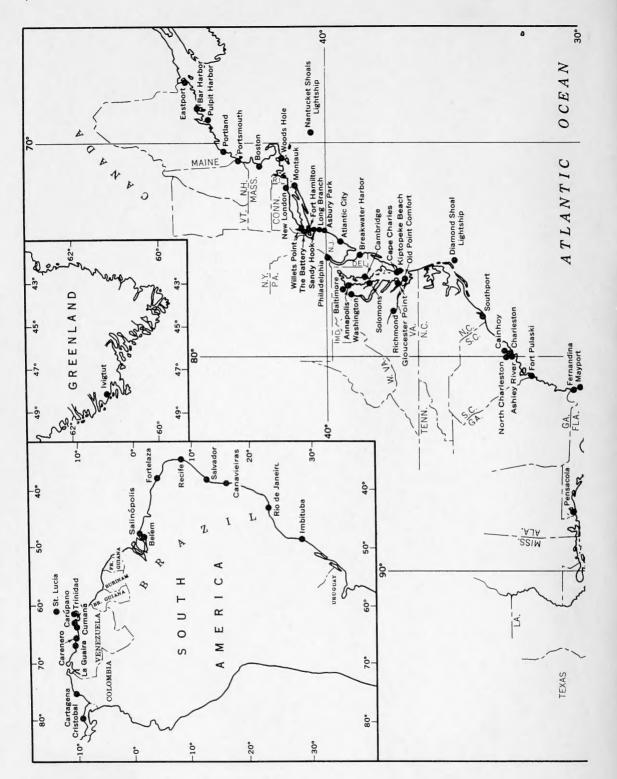


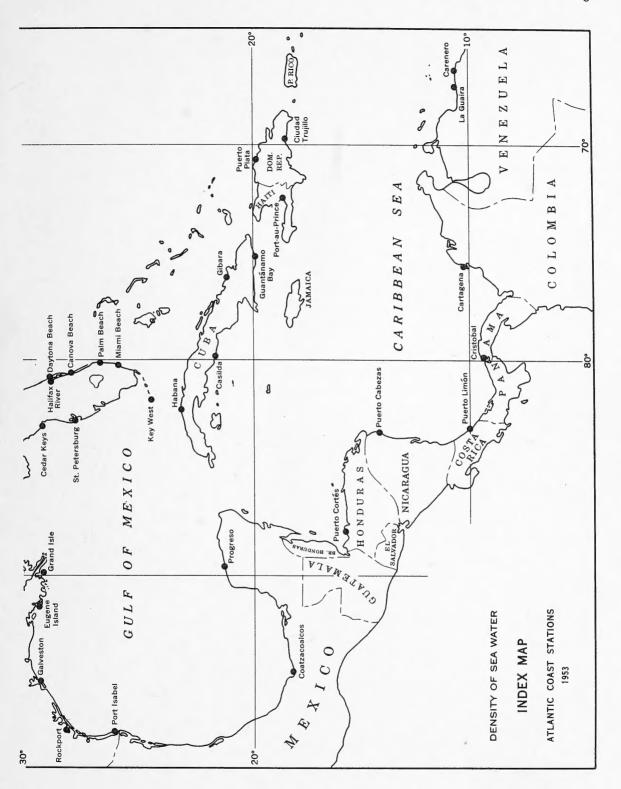
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LIST OF STATIONS

STATION	LAT.	LONG.	PAGE
	0 1	0 1	
Annapolis, Md	40 13 N. 32 50 N. 39 21 N.	76 29 W. 74 00 W. 79 58 W. 74 25 W.	28,58 20 33 21,57
Baltimore, Md	44 23 N. 40 42 N. 1 27 S. 42 21 N.	76 35 W. 68 12 W. 74 01 W. 48 30 W. 71 03 W. 75 06 W.	29,58 10,56 17,57 53 13,56
Cainhoy, Wando River, S. C	32 55 N. 38 34 N. 15 41 S. 28 08 N.	79 50 W. 76 04 W. 38 59 W. 80 35 W. 76 01 W.	33 27,58 55 36 24,57
Carenero, Venezuela	10 24 N. 10 40 N. 21 45 N.	66 07 W. 75 33 W. 63 15 W. 79 59 W. 83 02 W.	52 51 53 49 39,59
Charleston (Customhouse Wharf), S. C Charleston (Ashley River), S. C Ciudad Trujillo, Dominican Republic Coatzacoalcos (Puerto Mexico), Mexico Cristobal, Canal Zone Cumaná, Venezuela	32 50 N. 18 28 N. 18 09 N. 9 21 N.	79 55 W. 79 58 W. 69 53 W. 94 25 W. 79 55 W. 64 11 W.	31, 32, 58 33 49 45,60 47 53
Daytona Beach (Halifax River), Fla Daytona Beach (ocean), Fla Diamond Shoal Lightship	29 14 N.	81 01 W. 81 00 W. 75 20 W.	36 35,59 30,58
Eastport, MeEugene Island, La		66 59 W. 91 23 W.	9,56 41,59
Fernandina, Fla	3 42 S. 40 37 N.	81 28 W. 38 29 W. 74 02 W. 80 54 W.	34,58 54 18,57 33,58
Galveston, Tex	21 07 N. 37 15 N. 29 10 N.	94 48 W. 76 07 W. 76 30 W. 89 55 W. 75 09 W.	42,60 48 26 41 48,60
Habana, Cuba		82 20 W. 81 01 W.	47,60 36
Imbituba, BrazilIvigtut, Greenland		48 40 W. 48 11 W.	55 9,56

STATION	LAT.	LONG.	PAGE
	0 1	0 1	
Key West, Fla		81 48 W. 75 59 W.	37,59 24
La Guaira, Venezuela	40 18 N.	66 56 W. 73 59 W.	52 20
Mayport, Fla	25 46 N. 41 03 N.	81 26 W. 80 08 W. 71 58 W.	35,59 37,59 15,57
Nantucket Shoals Lightship New London, Conn New York (Fort Hamilton), N. Y New York (The Battery), N. Y New York (Willets Point), N. Y North Charleston Terminals,	41 22 N. 40 37 N. 40 42 N.	69 37 W. 72 06 W. 74 02 W 74 01 W. 73 47 W.	15 15,56 18,57 17,57 16,57
Cooper River, S. C		79 58 W.	33
Old Point Comfort, Va. Palm Beach, Fla. Pensacola, Fla. Philadelphia, Pa. Port-au-Prince, Haiti	26 43 N. 30 24 N. 39 57 N. 18 33 N.	76 18 W. 80 02 W. 87 13 W. 75 08 W. 72 21 W. 97 13 W.	25,57 36 40,59 23,57 49 44,60
Portland, Me	43 40 N. 43 05 N. 21 17 N. 14 01 N.	70 15 W. 70 45 W. 89 40 W. 83 23 W. 87 57 W.	11,56 12,56 45,60 46 46
Puerto Limón, Costa Rica	18 09 N. 19 49 N.	83 02 W. 94 25 W. 70 42 W. 68 53 W.	46 45,60 50 11
Recife, Brazil		34 52 W. 77 25 W.	54 25,57
(Fortaleza de Santa Cruz), Brazil Rockport, Tex	28 01 N.	43 08 W. 97 03 W.	55 43,60
St. Lucia (Vieux Fort), B. W. I St. Petersburg, Fla	27 46 N. 0 37 S.	60 58 W. 82 38 W. 47 23 W. 38 31 W.	50 38,59 54 54
Sandy Hook, N. J. Solomons, Md. Southport, N. C.	38 19 N.	74 01 W. 76 27 W. 78 01 W.	19,57 27,57 31,58
Trinidad (Carenage Bay), B. W. I		61 36 W.	51
Washington, D. C	40 48 N.	77 01 W. 73 47 W. 70 40 W.	26 57 16,57 14,56

INTRODUCTION

The summaries of sea water densities presented in this publication are based on observations made in Atlantic harbor and coastal waters through the year 1952. The densities were observed primarily at tide stations which, in the United States, were maintained by the Coast and Geodetic Survey, often with the cooperation of other organizations. Final results for Venezuela were supplied by the Ministerio de Obras Publicas, Estados Unidos de Venezuela. For other countries the Coast and Geodetic Survey derived the data from observations made by organizations in the countries concerned. In Latin America the observations were obtained through the cooperation of the Inter American Geodetic Survey.

Table 1 presents monthly means and annual mean and extremes for each year of observations. Maximum and minimum densities are shown for each year in which observations were made, whether or not the observations covered the whole year. In all cases the yearly extremes are from the months of the year for which means are given. If they are

from an incomplete year, they are followed by an asterisk.

For each station at which the series of observations covered two or more years, there are given also the following monthly values for the series: the mean of the monthly means together with their corresponding salinities, the maximum density observed, the mean of the monthly maxima, the mean of the monthly minima, and minimum observed.

Following the table of densities are graphs showing the seasonal variation in

salinity at stations for which the observations covered five years or more.

The observations are made by drawing a sample of water from near the surface and observing its density by means of a hydrometer. They are usually made once each weekday at whatever time the observer attends the tide gage. It may be assumed that in the course of a month or a year the distribution of observations is fairly uniform over all phases of the tide. At some stations situated within or near the entrance of an estuary, the density varies with the stage of the tide or with the direction of the tidal current.

The densities in Table 1 are given with respect to the density of pure water at a temperature of $4^{\circ}C$ ($39.2^{\circ}F$) as unity. The actual density of the water may vary from a little less than unity for fresh water at a temperature other than $4^{\circ}C$ to approximately 1.0310 for the heaviest sea water. Since the density of sea water, as observed, depends not only upon the amount of soluble matter contained in a unit volume but also upon the temperature of the water at the time the reading was made, it is necessary to reduce the observed densities to some standard temperature in order that they may be comparable. In this publication the observed densities have been reduced to a standard temperature of $15^{\circ}C$ ($59^{\circ}F$). The density of pure water free from air at a temperature of $15^{\circ}C$ is 0.9991.

The salinity of sea water is defined as the number of grams of salts contained in 1000 grams of sea water. Salinity can be determined by several different methods, one of the simplest being based upon the density of the water as obtained from the use of the hydrometer. Table 2 gives the salinity corresponding to different values of density at the standard temperature of 59°F. (15°C.) to which all densities in this publication are referred.

For some practical uses of density data, it is more important to know the density at the temperature apt to be encountered than at the standard temperature. The graph, Sea Water Density at Various Temperatures, provides for converting density at $59^{\circ}F$ ($15^{\circ}C$) to density at other temperatures.

The following publications complete this series:

Special Pub. 278. Surface Water Temperatures, Atlantic Coast, North and South America.

Special Pub. 280. Surface Water Temperatures, Pacific Coast, North and South America and Pacific Ocean Islands.

Special Pub. 281. Density of Sea Water, Pacific Ocean.

Table 1. Density of Sea Water Means and Extremes

Min.		.0076* 157 131	127	122* 101 116*		1.0076		٠ •	22.9*	218	212	222	216	223
Max.		1.0247*1.0076* 258 157 274 131	262	263* 256 252*		1.0274		1,0244 1 244	245* 241*	242	243	243	240	241
Means			223	214	1.0222			1,0235	1 1	234	254	234	233	234
Dec.		1.0242	249	247 244 223	1.0243	1.0263 1.0252 1.0231		1,0237	236	237	232	237	234	236
Nov.		1.0240 1.0242 240 247 241 246	241	246	1.0242	1.0258 1.0250 1.0227 1.0205		1,0236	234 236	238	239	239	235	238
Oct.			227	222	1.0222	1,0243 1,0240 1,0191 1,0132		1,0239	237	237	239	239	236	237
Sept.	Q		197	193 158 150	1.0184	1,0241 1,0213 1,0146			239	237	233	237	233	236
Aug.	IVIGTUT, GREENLAND		145	153 143 151	1.0159	1.0213 1.0185 1.0128 1.0076	T, ME.		237	236	236	235	234	235
July	'UT, GR	1.0160 1.0137 181 170 204 174	178	185 162 155	1.0176	1.0224 1.0202 1.0148 1.0096	EASTPORT, ME		236	234	233	234	232	232
June	IVIG	1.0211	204	210 187 182	1.0205	1.0242 1.0230 1.0177 1.0142	ГŢ		234	230	230	229	230	230
May		1.0223	237	231 220 228	1.0233	1.0262 1.0252 1.0199		-	228	228	222	228	227	228
Apr.			246 255	246 246	1.0249	1.0260 1.0254 1.0242 1.0235			229	228	052	232	228	231
Mar.		1.0248	248	251	1.0249	1,0260 1,0256 1,0221 1,0156			235	234	233	23.4	233	233
Feb.			250	256 248 242	1,0250	1.0264 1.0257 1.0226 1.0173			236	234	234	233	234	235
Jan.			249	249 245 248	1.0248 3	1.0274 1.0256 1.0238			239	236	236	234	236	235
Year		1945 1946 1947	1948	1950 1951 1952	Mean Density Salinity	Max. Wean Wax. Mean Min. Min.			1932	1934	1935	1937	1938	1939

*Observations for the year are incomplete; extremes are for the months shown.

Table 1. Density of Sea Water - Continued Means and Extremes

	Min.		.0218 223 222 222 226 230	228 227 214 226 221	215 215	O ₀	216
	Max.		1,0242 1 244 244 244 246 251	255 253 240 245 250		1.0246*1 245 247	246
	Means		1.0233 235 235 240 240	241 240 237 230 240	237 237 1.0236 31.9		236
	Dec.		1.0237 240 239 238 238	234 245 2445 236 241 233	240 240 320 320 1.0248 1.0241 1.0233	1.0243 238 241 234	238
	Nov.		1,0238 238 239 234 234 243	241 247 247 237 244 244	240 242 1.0239 32.3 1.0253 1.0225	1.0238	236
	Oct.		1.0237 239 240 240 247	248 251 247 239 246 243	242 242 1.0241 32.5 1.0252 1.0237 1.0237	1.0242 238 244 244	241
	Sept.	panu	1,0233 237 239 242 247	249 2449 2444 2448 248		1.0239 237 242 240	238
Trueines	Aug.	Continued	1.0234 238 237 241 241	246 245 241 241 247 242	242 241 1.0239 32.3 1.0242 1.0235 1.0235	HARBOR, ME 236 239 238 239	238
Means and Extremes	July	RT, ME.	1,0230 233 232 242 243	245 240 240 234 244 239	239 259 1.0236 31.9 1.0249 1.0233 1.0223	BAR HARE 1.0230 1.0230 1.0230 1.0230 1.0230 1.0230 1.0230	237
IME	June	EASTPORT, ME.	1,0228 231 230 239 239 239	239 236 232 231 237 237	235 234 1.0233 31.5 1.0244 1.0236 1.0228	BA 1.0228 235 238	234
	May		1.0227 228 230 237 237	234 233 231 231 235 235		1.0229	234
	Apr.		1.0224 230 230 230 239 236	233 233 234 232 232 35		232	235
	Mar.		1.0234 235 234 242 239	233 234 240 235 235	236 234 1,0235 1,0246 1,023 1,023 1,0231	1.0238 233 238	232
	Feb.		1,0236 235 235 239 240	240 236 239 235 235	233 233 1.0236 31.9 1.0244 1.0233 1.0233		236
	Jan.		235 235 238 242 242	233 243 242 233 242 241		1.0242 1 234 239	235
	Year		1940 1941 1942 1943	1945 1946 1947 1948	951 952 tty 11ty 11ty 11n.	1947 1948 1949 1950	1921

	1.0214		189*		.0137* 134 157	114 202 192	181*	204* 155 178 146 116*	169* 100* 104 167
			1.0		4*1.0 9 6			× ×	* *
	1.0250		1.0234* 240*		1.0244*1 239 236	235 232 232	250*	2548 250 250 248 237*	252* 238* 238 236 241
1.0236			8 8 8 8		1.0219	221 223 216		223	213 217 218
1.0238	1.0246 1.0243 1.0231 1.0224		1.0227		1.0225 222 223	223 221 209	213	215 227 218 218 223	213 216 220 215 215
1.0240 32.4	1.0250 1.0245 1.0232		1.0231		1.0224 227 230	226 223 216	215	228 222 221 221 224	223 220 225 225 228
1.0241 32.5	1.0248 1.0244 1.0236 1.0231	ME.	1.0228		1,0220 229 228	229 228 219	226	226 225 222 222 216	222 222 222 222 223
1,0239	1.0247 1.0244 1.0233	T BAY, ME	1.0229		1,0220 224 222	224 225 218	237	231 232 232 229 232	226 224 230 223 225
1,0236	1.0242 1.0240 1.0232 1.0230	HARBOR, PENOBSCOT	1.0224	ID, ME.	1,0219 223 230	226 224 221	236	234 235 235 235 223	218 224 226 222 222 218
1,0235	1.0242 1.0240 1.0227 1.0216	OR, PEI	1.0225	PORTLAND,	1,0204 222 230	223 225 221	234	232 232 240 241 231	223 223 222 219 219
1,0233	1.0239 1.0236 1.0229		1.0218	Ā	1.0215	224 224 218	8 · 1 9 · 1 8 · 6	230 220 236 231 212	227 195 215 218
1,0233	1.0246 1.0239 1.0224 1.0216	PULPIT	1,0203		1,0206	217 220 215	8 B 8 B 8 B	222 226 226 222 222 219	228 166 208 194
1,0233	1.0242 1.0238 1.0225 1.0214		1.0208		1.0212 206 214	199 214 214	224	219 212 220 222 190	208 175 198 204 138
1,0234	1.0245 1.0241 1.0226		1 1 1		1.0212 216 223	218 227 212	230	213 211 225 225 224	204 163 220 215 215
1.0237	1.0248 1.0243 1.0229 1.0225		1.0216		1.0230 1 224 225	218 225 214	214	220	216 213 214 225
1,0237	1.0245 1.0242 1.0228 1.0220		1.0223		1,0236 223 225	228 224 218	211	215 222 219 222	219 219 225 225
Mean Density Salinity	Max. Mean Max. Mean Min. Min.		1945	-	1922	1925 1926 1927	1929	1930 1931 1932 1933 1934	1935 1936 1937 1938 1939

*Observations for the year are incomplete; extremes are for the months shown.

Table 1. Density of Sea Water - Continued
Means and Extremes

Year		1940 1941 1942 1943	1945	Mean Density Salinity	Wax. Wean Max. Wean Min. Win.		1944	1945 1946 1947 1948	1950 1951 1952
Jan.		1.0229 224 232 226 226	221	1,0223	1.0244 1.0232 1.0209 1.0194		1,0233	211 210 228 248 248	221 210 188
Feb.		1.0227 220 231 231 227	220	1.0221 29.9	1.0246 1.0231 1.0205 1.0175		1,0230	220 215 208 208 247 203	218 184 184
Mar.		1.0221 223 211 211 215	194	1.0214	1,0236 1,0228 1,0187		1,0209	176 184 193 199 192	212 182 188
Apr.		1.0186 220 213 220 220 203	207	1.0207	1.0237 1.0225 1.0176		1.0178	196 194 191 198 198	180 168 157
May		1.0196 223 212 212 201 208	182	1.0209	1.0245 1.0226 1.0175 1.0104		1,0204	176 197 190 188 208	210 201 176
June	PORTL/	1.0200 231 210 210 217 222	188	1.0218	1.0246 1.0231 1.0191 1.0126	PO	1,0221	196 198 183 224	228 208 191
July	PORTLAND, ME.	1,0222 235 235 221 223 225	216	1.0226	1.0252 1.0237 1.0203 1.0126	RTSMO	1,0217	210 224 211 212 212 231	236 223 220
a July Aug.	1	1,0227 235 223 224 230	222	1.0226	1.0254 1.0236 1.0209 1.0182	PORTSMOUTH, N.H.	1.0238	224 218 218 224 234	237 221 224
Sept.	-Continued	1,0228 235 223 222 222	221	1.0226	1.0246 1.0236 1.0210	±	1.0227	228 217 228 228 228 235	230 223 229
Oct.		1,0228 238 227 218 227	222	1.0226 30.6	1.0244 1.0235 1.0209 1.0146		1.0231	229 219 236 230 238	234 225 231
Nov.		1,0224 237 223 211 218	210	1.0223	1.0239 1.0232 1.0206 1.0169		1.0226	222 228 232 232 236 234	225 180 233
Dec.		1.0224 234 227 227 224 216	215	1.0220	1.0242 1.0231 1.0206		1.0199	202 229 235 221 221	196 198 207
Means		1.0218 230 221 219 219 220	210	1.0220			1,0218	208 214 217 219	219 202 202
Мах.		1.0242 245 242 235 238	239		1.0254		1,0241	238 236* 241 253 253	242 236 236 236
Min.		1.0127 189 126 171 158	129		1.0100		1,0136	102 125* 156 098 153	117 091 070

			m C C		10.10	~ ·~		_	_			_								*
	1.0070		1.0128 140 160	167	165	167	202	117	140	141 159	131	129	152	132	102	101	175	098	118	
	1.0253		1.0236 234 234	237	238	234	238	232	236	230	234	233	233	233	235	238	243	235	257	237*
1.0212			1.0215 216 216	222	223	216	226	213	218	210	215	213	213	203	213	214	226	215	217	2 8
1.0213	1.0241 1.0234 1.0187 1.0147		1.0230 209 229	217	226	226	227	227	220	221	224	200	203	196	228	221	231	216	229	210
1.0223	1.0241 1.0234 1.0202 1.0137		1.0228 225 227	227	227	226	226	229	196	222	225	228	219	214	222	224	233	223	226	219
1.0230	1.0241 1.0236 1.0223 1.0206		1.0225 229 223	231	232	226	230	229	509	211	231	223	227	198	229	229	234	227	226	224
1,0227	1.0238 1.0234 1.0218		1.0214 230 212	228	23 1 208	221	233	222	225	210	224	219	221	203	229	229	234	229	230	222
1.0226	1.0242 1.0233 1.0213 1.0192	MASS.	1.0220 227 223	229	226 213	225	228	219	230	226	227	228	226	189	230	228	231	222	230	232
1,0220	1.0240 1.0232 1.0205 1.0180	BOSTON, MASS	1.0194 224 224	230	230	215	229	211	233	224	. 220	226	218	192	229	220	232	222	229	8
1,0206	1.0238 1.0227 1.0174 1.0126	ш	1.0199 219 218	225	226	206	228	186	228	223	206	224	202	210	219	202	223	216	216	225
1.0194	1.0231 1.0221 1.0160		1.0204 204 201	220	215	201	223	207	220	208	209	215	199	202	192	191	219	214	192	902
1.0184	1.0228 1.0220 1.0133 1.0070		1.0206	207	210	220 194	218	203	202	170	182	185	201	208	166	169	213	200	217	197
1,0193	1.0239 1.0228 1.0138 1.0098		1.0206 204 211	208	209 206 206	219	223	187	214	185	201	171	215	213	192	199	225	172	191	217
1.0212	1.0253 1.0234 1.0179 1.0124		1,0227 219 220	214	224	215	223	216	220	222	216	221	215	201	210	228	216	219	216	228
1,0217	1.0251 1.0234 1.0193 1.0141		1,0228	229	225	217	221	224	217	202	209	220	205	212	212	223	215	224	203	229
Mean Density Salinity	Max. Mean Max. Mean Min.		1922 1923 1924	1925	1926	1928	1930	1931	1932	1933	1935	1936	1937	1938	1939	1940	1941	1942	1943	1944

*Observations for the year are incomplete; extremes are for the months shown.

Table 1. Density of Sea Water - Continued

Means and Extremes

	Min.		1,0112 123 149 117	139 091 062		1.0062		0223*	230 227 234 125 217*	233 234 181
	Max.		233 - 238 - 238 - 238 - 239 - 236 -	239 231 234		1.0257		1.0254*1.0223*	282 248 258 258 249 256*	247 242 244
F	Means		1,0208 208 217 207 207 219	222 201 205	1.0215			-	1,0238 237 241 236	241 238 237
-	Dec.		1.0177 228 228 228 221 230	219 204 223	1.0219	1.0237 1.0228 1.0197 1.0130		1,0237	233 242 240 232 232 241	239 237 238
	Nov.		1,0215 229 219 217 223	222 189 227	1.0222	1.0236 1.0231 1.0200 1.0116		1,0238	238 241 240 234 234	242 238 239
	Oct.		1,0230 224 233 219 219 228	232 218 228	1.0225 30.4	1.0246 1.0233 1.0208 1.0140		1.0240	239 240 244 235 244	244 240 239
	Sept.	inued	1,0226 205 218 218 227 215	231 225 227	1.0223	1.0238 1.0231 1.0204 1.0131	SS.		240 241 242 237 245	243 240 239
	Aug.	BOSTON, MASS. —Continued	1,0219 199 219 221 221	233 221 214	30.2	1.0239 1.0231 1.0204 1.0136	WOODS HOLE, MASS.	1.0240	237 237 241 237 231	243 239 234
Media dia Latica	July	N, MASS	1,0210 226 220 202 202 231	23 1 224 226	30.1	1.0243 1.0231 1.0203 1.0118	он ѕас	1.0240	239 238 244 237 231	242 240 239
THE PARTY OF THE P	June	BOSTON	1,0198 192 217 175 226	230 191 200	1.0213	1.0237 1.0226 1.0182 1.0101	WO	1.0240	241 235 243 243 240	241 239 238
	May		1.0192 204 196 191 209	209 196 188	1.0206	1.0230 1.0223 1.0172 1.0100		1.0238 1.0240 1.0240 1.0240 1.0241	238 240 240 240 235	240 239 239
	Apr.		1,0213 211 211 211 187 195	210 175 173	1.0198	1.0257 1.0221 1.0158		1.0236	239 239 239 230	238 236 236
	Mar.		1.0176 181 212 171 212	206 171 171	1.0199	1,0235 1,0224 1,0155		1.0237	2336 2396 239	238 235 233
	Feb.		1.0217 206 224 223 212	221 180 184	1.0216	1.0239 1.0229 1.0188		1 1	1,0240 232 239 239 234	239 237 235
	Jan.		1.0220 188 212 229 229 213	226 214 195	1,0216	1.0238 1.0228 1.0187 1.0118		-	1,0237 231 241 241 238 233	240 238 236
	Year		1945 1946 1947 1948	1950 1951 1952	Mean Density Salinity	Max. Mean Max. Mean Min. Min.		1944	1945 1946 1947 1948 1949	1950 1951 1952

	1,0125		.0237* 232 238*		0078* 002 036	043 048* 041		1.0002		203*
	1.0282		1.0245*1.0237* 269 232 252* 238*		1.0224*1.0078* 238 002 232 036	230 227* 223		1.0238		1.0238*1.0224* 245* 203* 236 202
1.0238			1.0244		1.0136	151	1.0146			1,0225
1.0238	1.0254 1.0243 1.0234		1.0240		1.0164 177 183	134 105 148	1.0152	1.0216 1.0194 1.0106 1.0062		1.0228 228 234
1.0239	1.0256 1.0244, 1.0236		1.0242		1.0149 176 211	179 113 197	1.0171	1.0224 1.0216 1.0109 1.0052		1,0230 233 233
1.0241	1.0249 1.0244 1.0237	<u>a</u>	1.0244		1.0211 210 218	209 207 203	1,0210	1.0238 1.0228 1.0185	N.Y.	1.0233 233 234
1.0241	1.0248 1.0245 1.0256	SHOALS LIGHTSHIP	1,0252	Ž.	1.0189 208 212	203 200 198	1.0202	1,0230 1,0220 1,0171 1,0118	BAY, L.I.,	1.0231 231 231
1.0239	1.0247 1.0243 1.0229 1.0181	ALS LI	1.0251	LONDON, CONN.	1.0193 174 213	191 184 158	1,0186	1.0228 1.0219 1.0139	OND BA	1.0230
1.0240 32.4	1.0258 1.0246 1.0236		1.0242	A LOND	1.0118	178 173 184	1,0171	1.0216 1.0197 1.0138 1.0066	FORT POND	1,0222
1.0239	1.0253 1.0244 1.0236	NANTUCKET	1.0242	NEW	1,0075	117	1.0125	1.0197 1.0173 1.0068 1.0047	MONTAUK,	1.0220
1.0238	1.0255 1.0243 1.0234	Ž	1.0247		1.0073	095	1.0098	1.0167 1.0148 1.0062 1.0043	MOM	1.0223
1,0236	1.0264 1.0242 1.0231 1.0217		1.0245		1.0075	107	1.0093	1.0162 1.0144 1.0053 1.0038		1.0219
1.0236	1.0245 1.0241 1.0232		1.0244		1,0071	111	1.0096	1.0182 1.0161 1.0030		1.0223
1.0236	1.0282 1.0244 1.0219		1.0243		1,0099	149	1.0114	1.0204 1.0171 1.0062 1.0048		1.0229
1.0237	1.0254 1.0241 1.0234		1.0240		1.0170	155 107 112	1.0129	1.0203 1.0173 1.0082 1.0043		1.0240
Mean Density Salinity	Max. Moan Max. Woan Min. Min.		1923 1924 1925		1947 1948 1949	1950 1951 1952	Mean Density Salinity	Max. Moan Nax. Moan Min. Min.		1947 1948 1949

*Observations for the year are incomplete; extremes are for the months shown.

Table 1. Density of Sea Water - Continued Means and Extremes

n.		218 198 202*	-	86		169 160 161*	164	149* 148	158 153 156 165*	158
Min.		1,0		1.0198		٠. ١.				
Мах.		1.0239 234 237*		1.0245		1.0215 198 201*	214 204*	191*	204 209 208 208 200 210*	200
Means		1.0229	1.0226			1.0192	189	177	182 193 187 181	180
Dec.		1.0227 224 229	1.0228	1.0236 1.0232 1.0223		1.0192 189 190	188	163	187 203 179 193 189	176
Nov.	pe	1.0233 224 233	1.0231	1.0241 1.0236 1.0226 1.0219		1.0188 184 187	188	174	186 200 181 188 197	182
Oct.	Continued	1.0235	1.0233	1.0240 1.0237 1.0229 1.0227	7, N.Y.	1.0196 184 185	188	177	185 203 182 191	182
Sept.	N.Y.	1.0234	1.0231	1.0238 1.0235 1.0226	T RIVEF	1.0203 184 187	195	191	184 201 187 190	163
Aug.	IY, L.I.,	1.0231 226 223	1.0228 30.8	1.0235 1.0231 1.0223 1.0219	nt), EAS	1,0202 190 192	204 193	185	184 201 184 190 194	176
July	OND B	1.0230 225 220	1.0224	1.0235 1.0229 1.0217 1.0202	lets Poir	1.0191 185 187	196	180	178 191 186 185 187	178
June	MONTAUK, FORT POND BAY, L.I., N.Y.	1,0227 224 215	1.0222	1.0231 1.0226 1.0217 1.0212	NEW YORK (Willets Point), EAST RIVER, N.Y.	1.0193 180 182	193	181	167 190 186 171 185	177
May	ITAUK,	1,0225 218 213	1.0220	1.0233 1.0226 1.0214 1.0202	IEW YO	1.0184 173 177	186	178	171 186 188 166 179	163
Apr.	MOM	1.0223 214 213	1.0217	1.0232 1.0225 1.0207 1.0198	~	1.0184 174 173	165	174	170 184 185 173	182
Mar.		1.0228 222 221	1.0222	1.0231 1.0226 1.0218 1.0212		1.0192	176	176	186 188 191 171 186	179
Feb.		1.0229 224 220	30.3	1.0232 1.0228 1.0220		1,0186	176	174 167	195 183 200 181 195	192 178
Jan.		1.0231	1.0228	1.0245 1.0232 1.0220 1.0210		1,0189 192 186	192	178	194 184 200 179	192
Year		1950 1951 1952	Mean Density Salinity	Max. Mean Max. Mean Min. Min.		1952 1933 1934	1936	1938	1940 1941 1942 1943 1944	1945

162* 159* 158	180 159* 158*		1.0148		0056* 103 076	103	065	101 024 080	035	052	046	063
200* 198* 203	201 198* 196*		1.0215		1.0195*1 196 196	198	201	203 204 192	182	196	193 206	206
186	191	1.0184			1.0150	167	158	167 163 154	144	152	148	157
190	187 181 187	1.0187	1.0209 1.0192 1.0179		1.0115 175 166	182	169	156 160 153	113	144	154	153
189 195 196	195 186 192	1.0189	1.0207 1.0195 1.0181 1.0161		1.0113 181 172	181 168 133	171	171 160 152	152	155	152	171
191 193 196	194 192 189	1.0189	1.0206 1.0194 1.0183		1.0153 179 178	187	172	191 186 173	144	174	146	177
188 193 195	194	1.0190	1.0215 1.0196 1.0183 1.0158), N.Y.	1.0168 154 186	186	181	186 191 169	138	166	177	178
187 188 194	192	1.0190	1.0214 1.0197 1.0184 1.0164	Battery	1.0171 144 182	185	175	177 199 176	155	171	170	180
184 180 191	190 182 178	1.0185	1.0207 1.0192 1.0176	RK (The	1.0133	180	175	159 188 167	152	157	165	166
176 171 182	189	1.0160	1.0210 1.0188 1.0173	NEW YORK (The Battery), N.Y	1.0145	162	170	181 176 162	165	130	130	152
175 172 179	184 177 166	1.0176	1.0200 1.0183 1.0169	_	1.0132 143 124	165 140 145	152	159 154 138	157	123	980	125
175 173 176	190° 168 166	1.0176	1.0201 1.0184 1.0167 1.0148		1.0137 128 108	142	120	155 110 134	131	122	120	101
181 181 179	191 185 177	1.0181	1.0204 1.0190 1.0171		1.0106 140 127	128 167 158	140	142 106 153	141	162	098	137
183 192 177	193 188 174	1.0184	1.0206 1.0189 1.0176		1.0143 142 167	159 181 144	173	165 180 142	128	180	141	173
163	197 187 178	1.0186	1.0208 1.0192 1.0178		1.0160 139 163	148 179 139	158	159 159 133	156	174	141	173
1947 1948 1949	1950 1951 1952	Mean Density Salinity	Max. Mean Max. Mean Min. Min.		1927 1928 1929	1930	1954	1935 1936 1937	1938	1940	1942	1944

*Observations for the year are incomplete; extremes are for the months shown.

Table 1. Density of Sea Water - Continued
Means and Extremes

Min.		1.0043 068 035 052 052	048 041 053		1.0024		1.0084 008 017 048	075 058 044 088*	*090
Мах.		1.0187 1 199 193 199 199	198 194 207		1.0220		1.0224 1 223 226 226 226	213 214 222 242* 215	218*
Means		1.0129 150 147 156 158	153 141 144	1.0153			1.0176 172 172 180	172 159 162 162	
Dec.		1.0123 168 165 165 165	133 137 147	1.0153	1.0159 1.0180 1.0113 1.0035		1.0158 157 175 198	160 156 179 164	1 1
Nov.		1.0126 167 159 179	164 135 179	1.0160	1.0207 1.0184 1.0128 1.0069		1.0159 164 167 210	184 185 162 167 167	167
Oct.	panı	1.0126 166 182 183 183	178 166 178	1.0173	1.0206 1.0191 1.0148		1.0168 197 198 209	181 193 158 158 166	169
Sept.	-Conti	1.0148 170 175 177 183	169 162 165	1.0173	1.0220 1.0191 1.0150	n), N.Y.	1.0194 206 207 203	175 188 191 201 169	177
Aug.	NEW YORK (The Battery), N.Y. —Continued	1.0134 169 164 168 181	179 161 169	1.0172	1.0203 1.0188 1.0153 1.0095	NEW YORK (Fort Hamilton), N.Y	1.0207 211 209 202	164 180 190 221 175	175
July	ne Batter	1.0135 169 152 156 180	173 152 158	1.0165	1.0199 1.0183 1.0141 1.0079	tK (Fort	1,0197 201 200 191	174 166 166 184 177	174
June	ORK (T	1.0126 121 115 139 166	152 158 130	1.0153	1,0201 1,0175 1,0126 1,0059	EW YOF	1.0181 172 178 184	199 153 144 170	163
May	NEW Y	1,0090 138 099 126 147	143 144 118	1.0136	1.0187 1.0164 1.0101 1.0035	Z	1,0166 135 169 139	182 140 148 147	141
Apr.		1.0122 141 109 116 138	118 091 088	1.0119	1.0179 1.0152 1.0082		1.0129 099 128 096	167 110 123 118 124	104
Mar.		1,0098 111 136 112 112	136 123 129	1.0132	1.0195 1.0168 1.0086		1.0175 150 132 164	161 157 138 123 140	138
Feb.		1.0164 150 143 176	147 126 134	1.0153	1.0197 1.0177 1.0116 1.0072		1.0189 190 173 172	158 146 179	187
Jan.		1.0158 126 161 179 110	143 141 127	1.0151	1.0197 1.0177 1.0119 1.0035		1.0183 184 152 187	165 130 168 168	176
Year		1945 1946 1947 1948	1950 1951 1952	Mean Density Salinity	Mean Max. Wean Min. Win.		1911 1912 1913 1914	1915 1916 1917 1918 1919	1920

054		1,0008		.0217*1.0088* 209 081 214 102	116 104 116 072*	147*	093 112 111* 112 093	125 090 071
216 209	1.0242			1,0217*; 209 214	220 216 227 205*	244*	209 230 210* 205 205	205 202 207
162	22.9			1.0165	171 178 182	; ;	160 174 174 174	176 165 164
126	22.6	1.0197		1.0187 157 146	182	176	151 202 184 181 181	156 161 168
120	23.0	1.0199 1.0132 1.0054		1.0193 166 149	167 202 188	190	165 190 159 197 192	190 158 195
166	24.4	1.0205 1.0144 1.0102		1.0194 175 177	170	199	161 184 198 198	193 185 189
163	25.5	1.0210 1.0157 1.0091	_•	1,0183 180 183	181 191 194	197	172 187 187 191 195	191 187 178
184	25.9	1.0206 1.0164 1.0116	SANDY HOOK, N.J.	1,0171 198 161	199 200 201	204	157 181 182 182 199	191 177 184
190		.0201 .0156	NDY HO	1,0181 194 176	187 202 193	192	164 177 174 169 194	187 182 182
174		.0190 .0142 .0106	SAR	1.0179 176 174	166 194 177 181	8 8 9	163 146 149 151	180 176 142
161		1.0184 1.0113 1.0089		.0149 151 168	160 182 184 137	\$ 8	141 178 142 154 166	172 164 135
164	17.4	.0170 .0076 .0008		0125 1 120 162	154 141 164 150	8 45	162 172 149 150 159	151 128 130
152		1.0196 1 1.0086 1 1.0017 1		1.0147	152 140 178 150	8 8	133 144 167 149	164 151 158
176	23.7	1.0208 1.0131 1.0085		1.0161 1	173 143 189 155	6 G 8	162 169 184 145	164 141 151
182	22.7	1.0198 1.0125 1.0087		1.0153 1	164 157 150 175	3 8 8	173 148 196 184	167 168 152
N 00	Density Salinity Max.	Mean Max. Mean Min. Min.		1887 1888 1889	1890 1891 1892 1893	1944	1945 1946 1947 1948	1950 1951 1952

*Observations for the year are incomplete; extremes are for the months shown.

Table 1. Density of Sea Water - Continued Means and Extremes

	d			171		150*	210 207 213		20		.0194* 193* 147*
	Min.			1.0071		1.01			1,0150		0
	Max.			1.0244		.0236*1.0150* 262* 205*	282 269 277		1.0282		.0228*1 246* 244*
			el et	<u></u>		ч	44 (D (D)	တ္က	ri .		
	Means		1.0171			1 1	1.0244 239 238	1.0236			
	Dec.		1.0173	1.0230 1.0196 1.0148		1.0232	231 232 231	1.0232	1.0250 1.0246 1.0217		1.0214
	Nov.		1.0180	1.0215 1.0198 1.0157 1.0102		1.0233	247 231 233	1.0236	1.0258 1.0247 1.0224 1.0221		1.0230
	Oet.		1.0187	1.0244 1.0204 1.0169 1.0128		1,0224	242 247 231	1.0235	1.0262 1.0248 1.0215 1.0212		1.0224
	Sept.	SANDY HOOK, N.J. —Continued	1.0186	1.0231 1.0203 1.0166 1.0134	J.	1,0223	257 254 248	1.0244	1.0275 1.0257 1.0223 1.0201		1.0220
EAM CHICS	Aug.	.J. —Co	1.0186	1.0211 1.0199 1.0171	NCH, N.	1.0217	261 239 239	1.0238	1,0282 1,0255 1,0219 1,0201	ARK, N.	1.0215
Means and Eauches	July	00K, N	1.0184	1.0227 1.0199 1.0164 1.0129	LONG BRANCH, N	1.0213 1.0217 240 233	260 247 242	1.0240	1.0278 1.0262 1.0217 1.0181	ASBURY PARK, N.J.	1.0219
TAT	June	ANDY H	1,0169	1.0216 1.0191 1.0146 1.0096	LOI	1.0198 234	254 244 259	1.0238	1.0277 1.0257 1.0217 1.0156	ASI	1.0216
	May	18	1.0159	1.0206 1.0183 1.0127 1.0071		1,0206	243 240 238	1.0232	1.0259 1.0252 1.0206 1.0150		1.0222
	Apr.		1.0148	1.0207 1.0177 1.0117 1.0081		1.0231	236 240 240	1.0237	1.0263 1.0257 1.0214 1.0208		1.0216
	Mar.		1.0154	1.0209 1.0188 1.0120		1.0223	229 230 233	1.0229	1.0258 1.0248 1.0209 1.0205		1.0233
	Feb.		1.0165	1.0216 1.0189 1.0132 1.0072		8 8 1 8 1 8	1.0232 234 230	1.0232	1.0256 1.0251 1.0220 1.0217		1,0231
	Jan.		1.0162	1.0210 1.0188 1.0134 1.0093		1 1	1.0237 234 229	1.0233	1.0253 1.0251 1.0219 1.0217		1.0220
	Year		Mean Density Salinity	Max. Mean Max. Wean Min. Win.		1948	1950 1951 1952	Mean Density Salinity	Max. Mean Max. Mean Min. Min.		1945 1946 1947

| 1.0211 202 210 | 212
219* | 210* | 214 | 210 | 205 | 217 | 208

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239* | 240*
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 | 256 |
| 1.0236
235
235 | 234 | 228 | 228 | 231 | 235 | 238 | 235

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 | 107 | 233
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 | 232 | 233 | 233 | 241 | 236 | 236
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237 | 235
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229 | 230 | 228 | 227 | 234 | 222 | 251

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223 | 233 | 233 | 228 | 232 | 242 | 244

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2.35 2.35 2.35 2.35 2.35 2.35 2.35 2.35 2.35 2.35 2.35 2.35 2.35 2.35 2.35 2.35<td>912 1.0232 1.0239<td>912 1.0232 1.0232 1.0232 1.0233 1.0234<td>912 1.0232 1.0232 1.0234 234</td><td>912 225 236 231 225 231 225 231 225 231 225 232 235<td>912 1.0232 1.0232 1.0234<td>912 1.0232 1.0239 234 235 234 235 239</td><td>1.0232 1.0232 1.0232 1.0232 1.0232 1.0232 1.0232 1.0232 1.0234<</td><td>1.0.232 1.0.232 1.0.232 1.0.232 1.0.232 1.0.232 1.0.232 1.0.232 1.0.232 1.0.232 1.0.232 1.0.232 1.0.232 1.0.232 1.0.232 1.0.232 1.0.232 1.0.232 1.0.234 1.0.234 1.0.234 1.0.234 1.0.234 1.0.234 1.0.234 1.0.234 2.35 2.35 2.35 2.35 2.35 2.35 2.44 2.24 2.25 2.24 2.25 2.24 2.25
 2.25 2.25 2.25 2.25 2.25</td><td> 1.0 1.0</td><td> 1.0232 1.0233 1.0233 1.0234 1.0234 1.0234 1.0234 1.0234 1.0237 1</td><td> 1.0232 1.0233 1.0233 1.0234 1.0234 1.0234 1.0234 1.0234 1.0237 1</td><td> 1.0232 1.0234 1</td></td></td></td></td></td></td></t<> | 11.0232 1.0232 1.0232 1.0233 1.0233 1.0233 1.0233 1.0233 1.0233 1.0233 1.0233 1.0233 1.0237 1.0237 1.0233 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 242 238 238 239 235 235 235 235 235 237 234 237 237 237 237 237 234 244 910 232 232 230 230 230 230 231 232 232 232 232 </td <td>512 1.0232 1.0239 1.0237
 1.0237 1.0237 1.0237 1.0237 1.0237 1.0237 1.0237 1.0237 2.35 2.34 2.34 2.35 2.39 2.35 2.35 2.35 2.35 2.35 2.35 2.35 2.35 2.35 2.35 2.35 2.35 2.35 2.35 2.35 2.35<td>912 1.0232 1.0239<td>912 1.0232 1.0232 1.0232 1.0233 1.0234<td>912 1.0232 1.0232 1.0234 234</td><td>912 225 236 231 225 231 225 231 225 231 225 232 235<td>912 1.0232 1.0232 1.0234<td>912 1.0232 1.0239 234 235 234 235 239</td><td>1.0232 1.0232 1.0232 1.0232 1.0232 1.0232 1.0232 1.0232 1.0234<</td><td>1.0.232 1.0.232 1.0.232 1.0.232 1.0.232 1.0.232 1.0.232 1.0.232 1.0.232 1.0.232 1.0.232 1.0.232 1.0.232 1.0.232 1.0.232 1.0.232 1.0.232 1.0.232 1.0.234 1.0.234 1.0.234 1.0.234 1.0.234 1.0.234 1.0.234 1.0.234 2.35 2.35 2.35 2.35 2.35 2.35 2.44 2.24 2.25 2.24 2.25 2.24 2.25 2.25 2.25 2.25
 2.25 2.25</td><td> 1.0 1.0</td><td> 1.0232 1.0233 1.0233 1.0234 1.0234 1.0234 1.0234 1.0234 1.0237 1</td><td> 1.0232 1.0233 1.0233 1.0234 1.0234 1.0234 1.0234 1.0234 1.0237 1</td><td> 1.0232 1.0234 1</td></td></td></td></td></td> | 512 1.0232 1.0239 1.0237 2.35 2.34 2.34 2.35 2.39 2.35 2.35 2.35 2.35 2.35 2.35 2.35 2.35 2.35
2.35 2.35 2.35 2.35 2.35 2.35 2.35 <td>912 1.0232 1.0239<td>912 1.0232 1.0232 1.0232 1.0233 1.0234<td>912 1.0232 1.0232 1.0234 234</td><td>912 225 236 231 225 231 225 231 225 231 225 232 235<td>912 1.0232 1.0232 1.0234<td>912 1.0232 1.0239 234 235 234 235 239</td><td>1.0232 1.0232 1.0232 1.0232 1.0232 1.0232 1.0232 1.0232 1.0234<</td><td>1.0.232 1.0.232 1.0.232 1.0.232 1.0.232 1.0.232 1.0.232 1.0.232 1.0.232 1.0.232 1.0.232 1.0.232 1.0.232 1.0.232 1.0.232 1.0.232 1.0.232 1.0.232 1.0.234 1.0.234 1.0.234 1.0.234 1.0.234 1.0.234 1.0.234 1.0.234 2.35 2.35 2.35 2.35 2.35 2.35 2.44 2.24 2.25 2.24 2.25 2.24 2.25</td><td> 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
 1.0 1.0</td><td> 1.0232 1.0233 1.0233 1.0234 1.0234 1.0234 1.0234 1.0234 1.0237 1</td><td> 1.0232 1.0233 1.0233 1.0234 1.0234 1.0234 1.0234 1.0234 1.0237 1</td><td> 1.0232 1.0234 1</td></td></td></td></td> | 912 1.0232 1.0239 <td>912 1.0232 1.0232 1.0232 1.0233 1.0234
1.0234 1.0234<td>912 1.0232 1.0232 1.0234 234</td><td>912 225 236 231 225 231 225 231 225 231 225 232 235<td>912 1.0232 1.0232 1.0234<td>912 1.0232 1.0239 234 235 234 235 239</td><td>1.0232 1.0232 1.0232 1.0232 1.0232 1.0232 1.0232 1.0232 1.0234<</td><td>1.0.232 1.0.232 1.0.232 1.0.232 1.0.232 1.0.232 1.0.232 1.0.232 1.0.232 1.0.232 1.0.232 1.0.232 1.0.232 1.0.232 1.0.232 1.0.232 1.0.232 1.0.232 1.0.234 1.0.234 1.0.234 1.0.234 1.0.234 1.0.234 1.0.234 1.0.234 2.35 2.35 2.35 2.35 2.35 2.35 2.44 2.24 2.25 2.24 2.25 2.24 2.25</td><td> 1.0
 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0</td><td> 1.0232 1.0233 1.0233 1.0234 1.0234 1.0234 1.0234 1.0234 1.0237 1</td><td> 1.0232 1.0233 1.0233 1.0234 1.0234 1.0234 1.0234 1.0234 1.0237 1</td><td> 1.0232 1.0234 1</td></td></td></td> | 912 1.0232 1.0232 1.0232 1.0233 1.0234 <td>912 1.0232 1.0232 1.0234 234</td> <td>912 225 236 231 225 231 225 231 225 231 225 232 235<td>912 1.0232 1.0232 1.0234 1.0234 1.0234
 1.0234 1.0234<td>912 1.0232 1.0239 234 235 234 235 239</td><td>1.0232 1.0232 1.0232 1.0232 1.0232 1.0232 1.0232 1.0232 1.0234<</td><td>1.0.232 1.0.232 1.0.232 1.0.232 1.0.232 1.0.232 1.0.232 1.0.232 1.0.232 1.0.232 1.0.232 1.0.232 1.0.232 1.0.232 1.0.232 1.0.232 1.0.232 1.0.232 1.0.234 1.0.234 1.0.234 1.0.234 1.0.234 1.0.234 1.0.234 1.0.234 2.35 2.35 2.35 2.35 2.35 2.35 2.44 2.24 2.25 2.24 2.25 2.24 2.25</td><td> 1.0 1.0</td><td> 1.0232 1.0233 1.0233 1.0234 1.0234 1.0234 1.0234 1.0234 1.0237 1</td><td> 1.0232 1.0233 1.0233 1.0234 1.0234 1.0234 1.0234 1.0234 1.0237
1.0237 1</td><td> 1.0232 1.0234 1</td></td></td> | 912 1.0232 1.0232 1.0234 234 | 912 225 236 231 225 231 225 231 225 231 225 232 235 <td>912 1.0232 1.0232 1.0234<td>912 1.0232 1.0239 234 235 234 235 239</td><td>1.0232 1.0232 1.0232 1.0232 1.0232 1.0232 1.0232 1.0232 1.0234<</td><td>1.0.232 1.0.232 1.0.232 1.0.232 1.0.232 1.0.232 1.0.232 1.0.232 1.0.232 1.0.232 1.0.232 1.0.232 1.0.232 1.0.232 1.0.232 1.0.232 1.0.232 1.0.232 1.0.234 1.0.234 1.0.234 1.0.234 1.0.234 1.0.234 1.0.234 1.0.234 2.35 2.35 2.35 2.35 2.35 2.35 2.44 2.24 2.25 2.24 2.25 2.24 2.25 2.25 2.25 2.25 2.25 2.25 2.25 2.25 2.25 2.25 2.25 2.25 2.25 2.25 2.25 2.25
2.25 2.25</td><td> 1.0 1.0</td><td> 1.0232 1.0233 1.0233 1.0234 1.0234 1.0234 1.0234 1.0234 1.0237 1</td><td> 1.0232 1.0233 1.0233 1.0234 1.0234 1.0234 1.0234 1.0234 1.0237 1</td><td> 1.0232 1.0234 1</td></td> | 912 1.0232 1.0232 1.0234 <td>912 1.0232 1.0239 1.0239
 1.0239 234 235 234 235 239</td> <td>1.0232 1.0232 1.0232 1.0232 1.0232 1.0232 1.0232 1.0232 1.0234<</td> <td>1.0.232 1.0.232 1.0.232 1.0.232 1.0.232 1.0.232 1.0.232 1.0.232 1.0.232 1.0.232 1.0.232 1.0.232 1.0.232 1.0.232 1.0.232 1.0.232 1.0.232 1.0.232 1.0.234 1.0.234 1.0.234 1.0.234 1.0.234 1.0.234 1.0.234 1.0.234 2.35 2.35 2.35 2.35 2.35 2.35 2.44 2.24 2.25 2.24 2.25 2.24 2.25</td> <td> 1.0 1.0</td> <td> 1.0232 1.0233 1.0233 1.0234 1.0234 1.0234 1.0234 1.0234 1.0237 1</td> <td> 1.0232 1.0233 1.0233 1.0234 1.0234 1.0234 1.0234 1.0234 1.0237 1</td> <td> 1.0232 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234
1.0234 1</td> | 912 1.0232 1.0239 234 235 234 235 239 | 1.0232 1.0232 1.0232 1.0232 1.0232 1.0232 1.0232 1.0232 1.0234< | 1.0.232 1.0.232 1.0.232 1.0.232 1.0.232 1.0.232 1.0.232 1.0.232 1.0.232 1.0.232 1.0.232 1.0.232 1.0.232 1.0.232 1.0.232 1.0.232 1.0.232 1.0.232 1.0.234 1.0.234 1.0.234 1.0.234 1.0.234 1.0.234 1.0.234 1.0.234 2.35 2.35 2.35 2.35 2.35 2.35 2.44 2.24 2.25 2.24 2.25 2.24 2.25 | 1.0 1.0 | 1.0232 1.0233 1.0233 1.0234 1.0234 1.0234 1.0234 1.0234 1.0237 1 | 1.0232 1.0233 1.0233 1.0234 1.0234 1.0234 1.0234 1.0234 1.0237
1.0237 1 | 1.0232 1.0234 1 |

*Observations for the year are incomplete; extremes are for the months shown.

Table 1. Density of Sea Water - Continued Means and Extremes

Min		1.0206 205 221 197 199	216 202 201		1.0197		,0203* 187* 166*	168* 154 159	145*
Max		1.0242 1.245 248 248 245 245 245	251 243 245		1.0260		1.0235*1, 241* 226*	233 234 229	231*
Means		1,0231 229 236 231 233	238	1.0234				1.0209	;
Dec		1,0220 237 234 231 231	234 234 234	1,0233	1.0249 1.0239 1.0224 1.0206		1.0214	215 211 220	201
Nov		1.0230 238 240 233 233	239 230 23 5	1.0235	1.0253 1.0240 1.0227 1.0206		1.0225	217 219 219 219	219
5		1,0230 231 242 230 237	239 236 235	1,0235	1.0252 1.0241 1.0227 1.0204		1,0231	220 206 227	215
tag y	ATLANTIC CITY, N.J. —Continued	1,0230 . 231 . 234 . 232 . 241 .	238 237 230	1.0234	1.0253 1.0240 1.0226 1.0207	, DEL.	1.0228	219 224 224	219
Δnα	N.J. — C.	1.0224 231 233 226 226 240	242 236 226	1.0234	1.0253 1.0241 1.0226 1.0210	BREAKWATER HARBOR,	1.0225	219 223	220
Tulty And	CITY, 1	1.0232 228 239 235 235	244 234 235	1.0236	1.0257 1.0243 1.0228 1.0211	ATER H	1.0222	219 220	214
Inno	LANTIC	1.0237 229 235 221 237	243 228 230	1,0235	1.0260 1.0242 1.0225 1.0197	REAKW	1.0208	215 200 210	196
Moss	AT	1.0239 233 236 227 234	231 236 224	1.0233	1.0257 1.0242 1.0221 1.0199	ш	1.0209	208 202 205	8 8 8
, c V	de la	1.0236 227 235 231 230	237 229 231	1.0231	1.0254 1.0240 1.0217 1.0201		1.0205	200	8 8 8
Moss		1.0228 220 237 229 229	234 228 228	1.0231	1.0249 1.0239 1.0221 1.0205		1,0206	211	1 1
401	T.CD.	224 224 235 236 236	233 225 235	1,0233	1.0253 1.0240 1.0224 1.0202		1.0209	218 134 208	1 6
To a	9001	1.0229 : 221	238 235 228	1.0232	1.0256 1.0259 1.0224 1.0199		1.0203	207 194 218	l
Voca	ıcar	1945 1946 1947 1948	1950 1951 1952	Mean Density Salinity	Max. Mean Max. Mean Min. Min.		1921 1922 1923	1948 1948 1949 1950	1952

	<u>ي</u>	0 *	600 E1	2222	200020	P P 0 1 8
	1.0145	0,9990 0,9988	0.9989 0.9990 0.9990 0.9989	0.9992 0.9993 0.9992 0.9991 0.9985	0.9992 0.9989 0.9989 0.9998	0.9987 0.9987 0.9989 0.9991 0.9988
	1,0241	1.0012 0.9990 1.0002*0.9988*	1.0005 1.0004 1.0009 1.0009	1.0009 1.0011 1.0007 1.0008	1.0008 1.001 1.0006 1.0008	1.0005 1.0002 1.0007 1.0005
1.0212		0.9997	0.9994 0.9993 0.9994 0.9997 0.9999	0.99999 0.99999 0.99999 0.99999	1,0000 0,9997 0,9996 0,9998	0.9994 0.9996 0.9996 0.9996
1.0212	1.0230 1.0224 1.0196	0.9995	0.9991 0.9992 0.9996 0.9996	0.9997 0.9999 0.9999 0.9999	0.9995 0.9994 0.9995 0.9993 0.9993	0.9993 0.9995 0.9995 0.9994 0.9993
1.0220	1.0238 1.0229 1.0202 1.0182	0.9995 0.9991	0.9992 0.9992 0.9992 0.9997 1.0000	0.9998 1.0000 1.0000 1.0001 0.9998	0.9998 0.9994 0.9995 0.9998 0.9998	0.9996 0.9994 0.9996 0.9994 0.9994
1.0220	1.0239 1.0229 1.0201	0.9997	0.9994 0.9993 0.9995 1.0001	0.9998 1.0001 1.0002 1.0000	1.0002 0.9995 0.9997 0.9998 0.9994	0.9993 0.9997 0.9998 0.9996 0.9993
1.0220	1.0232 1.0228 1.0206 1.0186	A. 0.9999 0.9995	0.9996 0.9995 0.9997 0.9999 1.0000	0.9999 1.0003 1.0001 1.0003	1.0000 0.9999 1.0000 1.0000	0.9994 0.9998 0.9998 0.9997 0.9995
1.0220	1.0234 1.0229 1.0210	PHILADELPHIA, PA. 01 0.9999 1.0000 0 0.9994 0.9997 0	0.9997 0.9996 0.9996 1.0001	0.9999 1.0002 0.9999 1.0002	1.0000 0.9999 0.9996 1.0001 0.9996	0.9996 0.9998 0.9997 0.9998 0.9996
1.0217	1.0231 1.0227 1.0202 1.0187	ILADEL 0.9999 0.9994	0.9996 0.9997 0.9999 1.0000	1.0003 0.9999 1.0003 1.0003	1.0001 0.9998 1.0000 1.0000	0.9996 0.9996 1.0000 0.9997 0.9997
1.0206	1.0230 1.0219 1.0177	PH 1.0001	0.9996 0.9995 0.9997 1.0000 0.9999	1.0003 1.0001 1.0000 1.0000	1.0003 0.9997 1.0000 0.9995	0.9996 0.9996 0.9997 0.9999 0.9998
1.0206	1.0222 1.0218 1.0192	0.9996	0.9996 0.9995 0.9994 0.9999 0.9998	1.0002 1.0001 0.9999 1.0000	1.0002 0.9999 0.9996 1.0003 0.9995	0.9995 0.9996 0.9997 0.9998 0.9998
1.0203	1.0241 1.0225 1.0176	9666.0	0.9994 0.9991 0.9996 0.9996	0.9999 0.9999 0.9999 0.9996 1.0000	1.0000 0.9997 0.9994 0.9998 0.9993	0.9992 0.9994 0.9994 0.9995 0.9995
1.0207	1,0232 1,0218 1,0172	0.9996 0.9994	0.9992 0.9991 0.9992 0.9998	0.99998 0.9999 0.9999 0.9999	0,9999 0,9995 0,9995 0,9996,	0.9993 0.9993 0.9994 0.9994 0.9990
1.0206	1.0233 1.0220 1.0188	0.9995	0.9992 0.9992 0.9992 0.9994 0.9996	0.9996 0.9999 0.9998 0.9998	0.9996 0.9996 0.9995 0.9995	0.9993 0.9993 0.9993 0.9994 0.9992
1.0208	1.0229 1.0223 1.0190 1.0159	0.9995	0.9991 0.9992 0.9993 0.9993	0.9997 0.9999 0.9999 0.9998	0.9998 0.9995 0.9994 0.9996 0.9993	0.9992 0.9993 0.9993 0.9994 0.9992
Mean Density Salinity	Mean Max. Mean Min. Min.	192 3 1924	1925 1926 1927 1928 1929	1930 1931 1932 1933	1935 1936 1937 1938 1939	1940 1941 1942 1943 1944

*Observations for the year are incomplete; extremes are for the months shown.

Table 1. Density of Sea Water - Continued Means and Extremes

												1			
Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Means	Max.	Min.
					ď	HILADE	PHILADELPHIA, I	PA.		-					
1945	0.9991	0.9991 0.9994	0.9991 0.9994	0.9995	0.9994 0.9997	0.9995 0.9999	0.9995	0.9996 0.9999	0.9995	0.9993 0.9995	0.9992	0.9992	0.9993	1,0003	0.9987
Mean Density Salinity	0.9994	0.9994	0.9995	9.666.0	8.0 0.8	6°0 6666°0	6666.0	0.9998	0.5998	0.9997 0.7	9.6890	0.9995	0.9997		
Max. Mean Max. Mean Min. Min.	1.0002 0.9997 0.9992 0.9989	1.0002 0.9997 0.9992 0.9985	1.0002 0.9997 0.9992 0.9989	1.0005 0.9999 0.9993 0.9988	1.0008 1.0002 0.9993 0.9989	1.0012 1.0004 0.9994 0.9990	1.0009 1.0003 0.9994 0.9988	1.0011 1.0004 0.9993 0.9990	1.0011 1.0003 0.9994 0.9989	1.0009 1.0002 0.9992 0.9987	1.0005 0.9999 0.9992 0.9987	1.0004 0.9997 0.9992 0.9989		1.0012	0.9985
						KIPT	KIPTOPEKE	BEACH,	VA.						
1951	1.0194	1.0182	1.0176	1.0162	1.0152	1.0167	1.0180	1.0191	1.0196	1.0211	1.0199	1,0197	1.0132	1.0234* 240	1.0234*1.0156* 240 095
						CAPE	CAPE CHARLES (town),	S (town), VA.						
1947 1948 1949	1.0166		1.0169 1.0167.1. 141 143	1.0158	1.0145	1.0150	1.0171 168 171	1.0175 167 171	1.0178 174 179	1.0179 167 188	1.0177 177 182	1.0171 159 182	1.0164	1.0208*1.0154* 196 115 199 124	1.0154* 115 124
1950 1951 1952	179 146 162	174 148 148	163 144 141	155 142 140	157 147 130	168 154 147	175 168 162	182 172 174	182 179 176	175 186 168	171	153	170	200 209 196*	137
Mean Density Salinity	1.0160	1.0156	1.0152	1.0148	1.0146	1.0157	1.0169	1.0174	1.0178	1.0177	1.0176	1.0168	1.0163		
Max. Mean Max. Mean Min. Min.	1.0188 1.0172 1.0149	1.0196 1.0175 1.0138	1.0191 1.0180 1.0134	1.0175 1.0164 1.0130 1.0109	1.0183 1.0169 1.0122	1.0198 1.0175 1.0135	1.0199 1.0190 1.0146	1.0195 1.0139 1.0154 1.0150	1.0200 1.0193 1.0160 1.0150	1.0209 1.0192 1.0163 1.0154	1.0208 1.0197 1.0160 1.0152	1.0204 1.0183 1.0156 1.0137		1.0209	1.0101

1943	1 1	# 8 \$	1	9 9 8	8	OLD F	OINT C	OLD POINT COMFORT,	VA.	1.0167	1.0166	0210-1	\$ \$ 8	1.0186*1.0149*	.0149*
1944	0 -	1.0157	1.0117	1.0125	1.0144	1.0	1.0164	1.0182		153	153		1 03	192	068 106*
1948	105	121 097	119	107	120	129	155	149	154	147	146 140	102	130	174* 180	029* 07 4
1950 1951 1952	150 144 127	134 134 108	135 119 103	138 105 112	129 118 107	131 120 130	154 143 149	162 152 167	154 158 161	147 164 157	162 158 160	144	145 139 135	175 188 178	104 086 058
Mean Density Salinity	1.0138	1.0128	1.0120	1.0121	1.0125	1.0134	1.0149	1.0155	1.0154	1.0154	1.0156	1.0146	1.0140		
Max. Wean Max. Wean Min. Min.	1.0175 1.0158 1.0118 1.0086	1.0188 1.0155 1.0096 1.0058	1.0142 1.0142 1.0101 1.0086	1.0166 1.0141 1.0089 1.0043	1.0156 1.0140 1.0101	1.0163 1.0153 1.0108 1.0092	1.0185 1.0165 1.0132 1.0111	1.0192 1.0169 1.0140	1.0135 1.0171 1.0131 1.0110	1.0180 1.0169 1.0138 1.0116	1.0180 1.0168 1.0139 1.0119	1.0186 1.0166 1.0116		1.0192	1.0029
							RICHMO	RICHMOND, VA							
1947 1948 1949	0.9991	6866.0	0.9990 0.9990 0.9993	0.9991 0.9991 0.9993	0.9993 0.9993 0.9993	0.9894 0.9995 0.9995	0.9992 0.9995 0.9997	0.9994 0.9994 0.9995	0.9994 0.9992 0.9993	0.9994 0.9990 0.9993	0.9990 0.9991 0.9992	0.9992 0.9990 0.9993	0.9992	0.9999* 1.0001 1.0003	0.9986 0.9986 0.9986
1950 1951 1952	0.9992 0.9995 0.9994	0.9990 0.9992 0.9993	0.9990 0.9995 0.9991	0.9994 0.9997 0.9994	0.99997 0.9999 0.9998	0.9997 1.0000 0.9995	0.9998 1.0001 0.9997	0.9997 0.9999 0.9999	0.99995 0.99995	0.9995 0.9995 0.9992	0.9994 0.9993 0.9991	C.9995 O.9995 O.9991	0.9995 0.9997 0.9994	1.0006 1.0006	C.9988 O.9988 O.9983
Mean Density Salinity	0.9992	0.9891	0.9992	0.9993	98860	96660	0.9997 0.7	9666.0	0.9995	0.9993	0.9992	0.9993	0.9994		
Max. Mean Max. Mean Min.	0.99988 0.9986 0.9986	0.9996 0.9994 0.9988 0.9886	1.0003 0.9996 0.9988 0.9988	1.0001 0.9998 0.9988	1.0004 1.0000 0.9992 0.9989	1.0006 1.0001 0.9992 0.9986	1.0005 1.0001 0.9992 0.9989	1.0006 1.0001 0.9991 0.9989	1.0006 1.0001 0.99990	0.99999 0.9998 0.9988	1.0000 0.9996 0.9988	0.99999 0.9997 0.9986		1.0006	0.2983

*Observations for the year are incomplete; extremes are for the months shown.

Table 1. Density of Sea Water - Continued

Means and Extremes

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Means	Мах.	Min.
						GLOU	GLOUCESTER	R POINT,	r, vA.						
1950 1951 1952	1.0143	1.0134	1.0124	1.0119	1.0120	1.0133 131 126	1.0151 147 134	1,0155 152 160	1,0152 156 156	1.0145 163 155	1.0164 1.0148 159 157 155 142		1.0142	1.0193*1.0115* 170 110 201 074	.0115* 014 074
Mean Density Salinity	1.0142	1.0129	1.0122	1.0116	1.0114		1.0144	1.0130 1.0144 1.0156 18.0 19.9 21.4	1.0155 1.0154 21.3 21.2	1.0154	1.0159	1.0159 1.0149 21.8 20.5	1,0139		
Mean Max. Mean Min. Min.	1.0158 1.0157 1.0122 1.0114	1.0143 1.0140 1.0116	1.0141 1.0136 1.0106 1.0100	1.0133 1.0128 1.0098 1.0087	1.0137 1.0133 1.0092 1.0074	1.0155 1.0149 1.0113		1.0162 1.0186 1.0201 1.0159 1.0169 1.0175 1.0129 1.0149 1.0145 1.0118 1.0148 1.0142		1.0170 1.0163 1.0145 1.0132	1.0193 1.0176 1.0140	1.0170 1.0163 1.0126 1.0121		1,0201	1.0074
						W	SHING	WASHINGTON, D.C.	ن						
1944	0.9994	0.9994	0.9994	0.9993	0.9997	9666*0	0.9997	0.9997	0.9997	9666*0	0.9995		0.9995 0.9995 1.0007		8866*0
1945	0.9993	0.9994	0.9994	0.9996	0.9994 0.9991	0.9995	0.9993 0.9994	0.9994	0.9994	0.9992	0.9991	0.9989		0.9993 1.0006 (0.9991 1.0000 (0.9986
1947				0.9993		9666.0	0.99998 0.9998	0.9997 0.9998 0.9998	0.9995 0.9997 0.9995	0.9994 0.9993 0.9995	0.9992 0.9992 0.9993	0.9990	0.9992	1,0005	0,9985
1950 1951 1952				0.9993 0.9996 0.9997		0.9998 0.9997 0.9998	0.9999 0.9998 0.9998		0.9997 0.9997 0.9996	0.9996 0.9996 0.9996	0.9995 0.9996 0.9997	0.9995 0.9995 0.9994		1,0007	0.9990 0.9992 0.9992
Mean Density Salinity	0.9992	0.9992	0.9993	0.9994	9666.0	0.9997	0.9997 0.7	0.9997 0.7	9.0	0.9994	0.9994	0.9993	0.9995		
Max. Mean Max. Mean Min.	0.9998 0.9995 0.9989	0.9998 0.9995 0.9989 0.9985	1.0005 0.9998 0.9990 0.9986	1.0002 0.9997 0.9990 0.9987	1.0008 1.0003 0.9992 0.9989	1.0010 1.0003 0.9992 0.9990	1.0005 1.0001 0.9993 0.9990	1.0007 1.0003 0.9993 0.9990	1,0007 1,0000 0,9991 0,9985	1.0005 0.9998 0.9992 0.9989	0.9999 0.9997 0.9991 0.9987	0.9999 0.9996 0.9996 0.9986		1.0010	0.9985

	1.0064	042* 065 068 033 047	045 040 044 039 046	050 049 037		1.0033		1,0025* 029 041 006 033
	1.0127	139* 148 145 135	123 123 126 127 137	128 126 119		1.0148		1.0066*1 092 102 095 104
	1.0096	113 105 088 107	083 086 096 094 092	096 090 083	1.0095			1.0059 074 062 065
	1.0108	109 140 093 116 130	073 119 120 104	081 117 095	1.0110	1.0148 1.0120 1.0098 1.0060	·	1.0043 086 093 063 063
	1,0122	120 136 105 123 132	090 116 118 122 123	118 122 114	1.0119	1.0142 1.0126 1.0111 1.0086		1.0057 085 094 082 095
	1.0108	116 136 113 128 120	083 110 102 112 112	108 114 106	1.0113	1.0143 1.0121 1.0105 1.0080		1.0058 079 080 082 092
	1.0103	108 124 106 107 109	084 097 093 093	102 107 090	1.0103	1.0133 1.0111 1.0094 1.0076		1.0054 067 066 065 083
SOLOMONS, MD	1,0097	098 112 105 094 100	066 079 078 081 095	090 090 080	1.0092	1.0125 1.0102 1.0082 1.0055	CAMBRIDGE, MD	1.0039 048 057 045 068
ОМОТС	1.0099	087 107 096 077 099	071 064 075 082 085	088 067 077	1.0085	1.0117 1.0094 1.0077 1.0054	MBRID	1.0041 057 051 062
Š.	1,0089	071 106 079 054 083	065 056 063 070 080	086 080 062	1.0075	1.0117 1.0088 1.0061	ΰ	1.0053 060 046 058
	1,0082	062 093 092 061 069	076 086 079 066 070	076 063 064	1.0073	1.0111 1.0085 1.0057 1.0039		1.0054 067 050 050
	1.0074	066 086 088 067 085	067 079 091 069 067	074 074 056	1.0074	1.0092 1.0092 1.0058 1.0037		1.0053 075 062 044
	1.0084	108 117 069 114	083 074 105 100 066	107 082 074	1.0089	1.0130 1.0102 1.0071		1.0052 076 076 043
	1,0094 1	127 108 132 078 126	122 082 106 114 069	096 069 075	1.0100 1	1.0139 1.0109 1.0088 1.0054		1.0048 078 063 042
	1,0093 1	124 099 137 077 118	120 070 118 117 075	113 079 097	1.0103 1	1.0145 1.0113 1.0091 1.0046		1.0039] 082 060 049
	1938	1940 1941 1942 1943	1945 1946 1947 1948	1950 1951 1952	Mean Density Salinity	Max. Mean Max. Mean Min. Min.		1945 1946 1947 1948 1949

*Observations for the year are incomplete; extremes are for the months shown.

Table 1. Density of Sea Water - Continued Means and Extremes

Jan. Feb.	. Mar.	Apr.	May	June	\mathbf{J} uly	Aug.	Sept.	Oct.	Nov.	Dec.	Means	Мах.	Min.
			S	AMBRII	DGE, MI	D. —Col	ntinued						
77 1.009 70 06 34 04		058 042			1.0064 069 059	1.0071 072 056	1.0079 079 066		1.0095 086 081	1.0080 075 073	1.0079 070 058	1.0105 103 087	1.0057 043 023
36 1. 006	1,0063	1,0058			1.0058	1.0057	1.0070		1.0084	1.0076	1.0065		
	3 1.0093 2 1.0072 7 1.0052 8 1.0037	1.0084 1.0067 1.0046 1.0023	1.0079 1.0063 1.0044 1.0027		1.0076 1.0064 1.0049 1.0033	1,0081 1,0065 1,0048	1.0091 1.0078 1.0058	1.0103 1.0090 1.0070 1.0052	1.0102 1.0091 1.0067 1.0050	1.0104 1.0088 1.0062 1.0029		1,0105	1.0006
				¥	NNAPOL	IS, MD							
79 1.006 34 09,	4 1.0080 2 055 3 055	0037 029 050		1.0025 044 050	1.0040 053 061	1.0043 054 067			1,0092 098 111	1,0093 081 103			1.0011 010 008
	1 074 7 048 7 056	044 036 033	051 040 042	049 060 042	055 058 057	068 063 059	078 079 062	093 090 089	097 102 098	047 089 074	066	111	026 019 021
34 1.005		1.0038		1.0045	1.0054	1.0059	1.0071	1.0090	1.0100	1,0081	1.0064		
96 1.010 30 1.007 12 1.003 38 1.001	1.0089 1.0075 1.0013	1.0063 1.0052 1.0022			1.0077 1.0061 1.0048		1.0095 1.0082 1.0059		1.0113 1.0108 1.0083 1.0063	1.0114 1.0092 1.0064 1.0035		1.0113	1,0008
	1.0097 1.009 070 066 064 046 1.0066 1.006 1.0080 1.009 1.0080 1.009 1.0079 1.006 094 099 032 04 051 037 051 037 051 037 051 037 051 037 051 037 051 037 051 037 051 037 051 005 1.0064 1.005 1.0096 1.0010	1.0090 1.0083 060 060 045 048 1.0061 1.0063 9.0 9.3 1.0072 1.0093 1.0047 1.0055 043 055 043 055 041 074 037 048 037 048 037 048 037 048 037 048 037 048 037 048 037 048 037 048 1.0059 1.0061 8.8 9.0	1.0083 1.0073 060 058 048 042 1.0063 1.0058 1.0052 1.0064 1.0052 1.0064 1.0052 1.0067 1.0053 1.0053 055 029 055 029 056 033 1.0061 1.0038 9.0 6.0 1.0089 1.0063 1.0075 1.0052 1.0075 1.0052	1.0083 1.0073 1.0063 060 058 057 048 042 041 1.0063 1.0058 1.0055 9.3 8.6 8.2 1.0052 1.0064 1.0079 1.0052 1.0067 1.0063 1.0052 1.0063 1.0063 055 050 042 055 050 042 074 044 051 048 056 033 042 1.0061 1.0038 1.0041 9.0 6.0 6.4 1.0089 1.0063 1.0058 1.0089 1.0063 1.0058 1.0089 1.0063 1.0058 1.0089 1.0063 1.0058 1.0089 1.0063 1.0058 1.0089 1.0063 1.0058 1.0089 1.0063 1.0058 1.0075 1.0052 1.0058 1.0078 1.0011 1.0016	1.0083 1.0073 1.0063 060 058 057 048 042 041 1.0063 1.0058 1.0055 9.3 8.6 8.2 1.0052 1.0064 1.0079 1.0052 1.0067 1.0063 1.0052 1.0063 1.0063 055 050 042 055 050 042 074 044 051 048 056 033 042 1.0061 1.0038 1.0041 9.0 6.0 6.4 1.0089 1.0063 1.0058 1.0089 1.0063 1.0058 1.0089 1.0063 1.0058 1.0089 1.0063 1.0058 1.0089 1.0063 1.0058 1.0089 1.0063 1.0058 1.0089 1.0063 1.0058 1.0075 1.0052 1.0058 1.0078 1.0011 1.0016	1.0083 1.0073 1.0063 060 058 057 048 042 041 1.0063 1.0058 1.0055 9.3 8.6 8.2 1.0052 1.0064 1.0079 1.0052 1.0067 1.0063 1.0052 1.0063 1.0063 055 050 042 055 050 042 074 044 051 048 056 033 042 1.0061 1.0038 1.0041 9.0 6.0 6.4 1.0089 1.0063 1.0058 1.0089 1.0063 1.0058 1.0089 1.0063 1.0058 1.0089 1.0063 1.0058 1.0089 1.0063 1.0058 1.0089 1.0063 1.0058 1.0089 1.0063 1.0058 1.0075 1.0052 1.0058 1.0078 1.0011 1.0016	1.0083 1.0073 1.0063 060 058 057 048 042 041 1.0063 1.0058 1.0055 9.3 8.6 8.2 1.0052 1.0064 1.0079 1.0052 1.0067 1.0063 1.0052 1.0067 1.0063 055 029 035 055 050 042 074 044 051 078 036 040 056 033 1.0041 1.0061 1.0038 1.0041 9.0 6.0 6.4 1.0089 1.0063 1.0058 1.0075 1.0052 1.0058 1.0075 1.0052 1.0058 1.0075 1.0052 1.0058 1.0075 1.0052 1.0058 1.0075 1.0051 1.0016	CAMBRIDGE, MD. —Continued 1.0083 1.0073 1.0063 1.0064 1.0064 1.0071 1.0079 060 058 057 064 069 072 073 048 042 041 046 059 056 066 1.0063 1.0058 1.0055 1.0056 1.0058 1.0057 1.0070 9.3 8.6 8.2 8.4 8.6 8.5 10.2 1.0093 1.0084 1.0079 1.0075 1.0076 1.0081 1.0091 1.0097 1.0057 1.0057 1.0057 1.0053 1.0064 1.0055 1.0057 1.0080 1.0057 1.0057 1.0057 1.0053 1.0057 1.0057 055 029 035 044 053 054 066 055 029 042 050 061 067 088 074 074 074 051 079 050 050 063 079 056 033 042 050 057 059 059 062 1.0061 1.0058 1.0058 1.0054 1.0059 1.0071 9.0 6.0 6.0 6.4 6.9 8.1 8.8 10.8 1.0089 1.0063 1.0052 1.0052 1.0051 1.0059 1.0098 1.0052 1.0052 1.0052 1.0051 1.0059 1.0058 1.0052 1.0052 1.0052 1.0051 1.0059 1.0075 1.0052 1.0052 1.0052 1.0051 1.0059 1.0075 1.0052 1.0052 1.0052 1.0051 1.0059 1.0075 1.0052 1.0052 1.0052 1.0051 1.0059 1.0010 1.0011 1.0016 1.0021 1.0058 1.0051 1.0044	CAMBRIDGE, MD. —Continued 1.0083 1.0073 1.0063 1.0064 1.0064 1.0071 1.0079 1.0088 060 058 057 064 069 072 079 084 048 042 041 045 059 056 066 073 1.0063 1.0058 1.0055 1.0056 1.0058 1.0057 1.0070 1.0080 9.3 8.6 8.2 8.4 8.6 8.5 10.2 11.5 1.0063 1.0054 1.0075 1.0076 1.0081 1.0071 1.0080 1.0052 1.0057 1.0053 1.0053 1.0054 1.0055 1.0078 1.0090 1.0057 1.0057 1.0057 1.0053 1.0040 1.0043 1.0057 1.0076 055 029 035 044 053 054 066 099 074 044 051 049 055 068 078 099 055 050 042 050 051 067 051 067 059 056 033 042 042 055 057 059 059 056 033 042 044 051 0077 1.0089 1.0071 1.0090 9.0 6.0 6.4 6.9 8.1 8.8 10.3 12.8 1.0089 1.0063 1.0065 1.0065 1.0077 1.0083 1.0095 1.0107 1.0089 1.0063 1.0065 1.0065 1.0061 1.0069 1.0091 1.0075 1.0052 1.0065 1.0065 1.0077 1.0083 1.0091 1.0075 1.0052 1.0065 1.0065 1.0077 1.0083 1.0091 1.0075 1.0052 1.0052 1.0065 1.0077 1.0083 1.0091 1.0075 1.0052 1.0052 1.0054 1.0059 1.0074 1.0066 1.0075 1.0052 1.0052 1.0054 1.0058 1.0051 1.0066 1.0075 1.0052 1.0052 1.0054 1.0058 1.0051 1.0066 1.0075 1.0052 1.0052 1.0054 1.0058 1.0051 1.0066 1.0075 1.0052 1.0052 1.0054 1.0058 1.0051 1.0066 1.0075 1.0052 1.0052 1.0054 1.0058 1.0056 1.0066 1	CAMBRIDGE, MD. —Continued 1.0083 1.0073 1.0063 1.0064 1.0064 1.0071 1.0079 1.0088 060 058 057 064 069 072 079 084 048 042 041 045 059 056 066 073 1.0063 1.0058 1.0055 1.0056 1.0058 1.0057 1.0070 1.0080 9.3 8.6 8.2 8.4 8.6 8.5 10.2 11.5 1.0093 1.0084 1.0079 1.0075 1.0076 1.0081 1.0073 1.0080 1.0052 1.0048 1.0079 1.0075 1.0076 1.0081 1.0078 1.0090 1.0052 1.0048 1.0079 1.0077 1.0033 1.0048 1.0057 1.0076 1.0080 1.0037 1.0027 1.0023 1.0033 1.0025 1.0041 1.0052 055 059 035 044 053 054 066 099 074 044 051 049 055 068 078 099 055 050 042 050 051 067 051 067 069 056 033 042 050 058 053 079 090 056 033 042 040 050 058 053 079 090 056 033 042 040 058 059 1.0077 1.0083 1.0097 1.0090 9.0 6.0 6.4 6.9 8.1 8.8 10.3 12.8 1.0089 1.0063 1.0058 1.0056 1.0051 1.0059 1.0070 1.0075 1.0052 1.0052 1.0054 1.0058 1.0051 1.0059 1.0070 1.0001 1.0011 1.0016 1.0024 1.0028 1.0036 1.0044 1.0066	CAMBRIDGE, MD. —Continued 1.0083 1.0073 1.0063 1.0064 1.0084 1.0071 1.0079 1.0088 1.0095 060 058 057 064 069 072 079 084 086 048 042 041 046 059 056 066 073 081 1.0063 1.0058 1.0055 1.0056 1.0058 1.0057 1.0070 1.0080 1.0084 9.3 8.6 8.2 8.4 8.6 8.5 10.2 11.5 12.0 1.0053 1.0084 1.0079 1.0075 1.0076 1.0081 1.0091 1.0103 1.0102 1.0052 1.0084 1.0079 1.0075 1.0076 1.0081 1.0091 1.0103 1.0067 1.0052 1.0084 1.0079 1.0075 1.0076 1.0084 1.0058 1.0090 1.0067 1.0052 1.0084 1.0077 1.0027 1.0039 1.0048 1.0058 1.0097 1.0090 1.0052 1.0046 1.0047 1.0025 1.0049 1.0048 1.0057 1.0076 1.0092 055 029 035 044 053 064 066 092 099 011 074 044 051 049 055 068 063 078 099 0102 055 036 040 060 058 063 079 090 102 056 033 042 042 057 059 062 089 098 1.0061 1.0038 1.0041 1.0045 1.0054 1.0059 1.0071 1.0090 1.0109 9.0 6.0 6.4 6.9 8.1 8.8 10.3 12.8 14.1 1.0089 1.0063 1.0065 1.0077 1.0083 1.0095 1.0107 1.0108 1.0075 1.0052 1.0052 1.0054 1.0054 1.0059 1.0051 1.0068 1.0073 1.0022 1.0052 1.0054 1.0058 1.0051 1.0059 1.0068 1.0073 1.0022 1.0052 1.0054 1.0058 1.0051 1.0068 1.0068 1.0073 1.0022 1.0052 1.0054 1.0058 1.0051 1.0059 1.0068 1.0073 1.0011 1.0016 1.0021 1.0058 1.0051 1.0059 1.0068 1.0073 1.0052 1.0052 1.0054 1.0058 1.0056 1.0065 1.0068	CAMBRIDGE, MD. —Continued 1.0083 1.0073 1.0063 1.0064 1.0064 1.0071 1.0079 1.0088 1.0095 1.0080 060 058 057 064 069 072 079 084 086 075 1.0063 1.0058 1.0055 1.0056 1.0058 1.0057 1.0070 1.0080 1.0084 1.0075 9.3 8.6 8.2 8.4 8.6 8.5 10.2 11.5 12.0 11.0 1.0053 1.0054 1.0079 1.0076 1.0076 1.0081 1.0091 1.0103 1.0102 1.0104 1.0072 1.0057 1.0057 1.0075 1.0076 1.0081 1.0091 1.0103 1.0102 1.0104 1.0052 1.0064 1.0079 1.0077 1.0059 1.0048 1.0058 1.0070 1.0067 1.0059 1.0057 1.0057 1.0057 1.0057 1.0059 1.0048 1.0057 1.0070 1.0067 1.0059 1.0080 1.0057 1.0057 1.0057 1.0059 1.0041 1.0052 1.0050 1.0091 1.0080 1.0057 1.0057 1.0057 1.0059 1.0041 1.0052 1.0050 1.0091 1.0081 1.0057 1.0057 1.0057 1.0059 1.0057 1.0071 1.0090 1.0100 1.0081 9.0 042 042 042 045 065 068 078 099 091 012 089 055 059 042 042 050 059 055 068 078 099 091 1.0061 1.0058 1.0058 1.0054 1.0059 1.0071 1.0090 1.0100 1.0081 9.0 6.0 6.4 6.9 8.1 8.8 10.3 12.8 14.1 11.6 1.0089 1.0062 1.0056 1.0056 1.0057 1.0059 1.0051 1.0058 1.0057 1.0001 1.0011 1.0016 1.0021 1.0058 1.0056 1.0053 1.0053 1.0012 1.0011 1.0016 1.0021 1.0058 1.0056 1.0053 1.0055 1.0012 1.0011 1.0016 1.0021 1.0056 1.0056 1.0055 1.0055 1.0012 1.0012 1.0015 1.0055 1.0056 1.0056 1.0055 1.0055 1.0012 1.0012 1.0016 1.0021 1.0056 1.0056 1.0055 1.0056 1.0012 1.0012 1.0016 1.0021 1.0056 1.0056 1.0055 1.0055 1.0012 1.0012 1.0015 1.0055 1.0056 1.0056 1.0056 1.0055 1.0012 1.0012 1.0015 1.0056 1.0056 1.0056 1.0056 1.0055 1.0012 1.0012 1.0015 1.0056 1.0056 1.0056 1.0056 1.0055 1.0012 1.0012 1.0015 1.0056 1.0056 1.0056 1.0056 1.0055 1.0012 1.0012 1.0015 1.0025 1.0056 1.0056 1.0056 1.0055 1.0012 1.0012 1.0015 1.0056 1	CAMBRIDGE, MD. —Continued 1.0083 1.0073 1.0063 1.0064 1.0064 1.0071 1.0079 1.0088 1.0095 1.0079 1.0105 060 058 057 064 069 072 079 084 086 075 075 070 1.0063 1.0068 1.0055 1.0056 1.0058 1.0057 1.0070 1.0080 1.0084 1.0076 1.0065 9.3 8.6 8.2 8.4 8.6 8.5 10.057 1.0070 1.0080 1.0084 1.0076 1.0065 1.0063 1.0058 1.0055 1.0056 1.0058 1.0057 1.0070 1.0080 1.0084 1.0076 1.0065 1.0073 1.0084 1.0079 1.0075 1.0076 1.0081 1.0073 1.0103 1.0092 1.0094 1.0072 1.0057 1.0057 1.0057 1.0057 1.0059 1.0078 1.0057 1.0057 1.0067 1.0080 1.0087 1.0087 1.0087 1.0089 1.0084 1.0057 1.0057 1.0057 1.0059 1.0099 1.0080 1.0087 1.0087 1.0087 1.0087 1.0087 1.0097 1.0050 1.0099 1.0080 1.0087 1.0087 1.0087 1.0089 1.0084 1.0057 1.0097 1.0050 1.0099 1.0080 1.0087 1.0087 1.0085 1.0084 1.0089 1.0097 1.0097 1.0099 1.0099 1.0099 1.0080 1.0087 1.0087 1.0085 1.0089 1.0087 1.0090 1.010 1.0081 1.0089 1.0081 1.0087 1.0087 1.0084 1.0089 1.0097 1.0090 1.010 1.0081 1.0084 1.0081 1.0087 1.0087 1.0084 1.0089 1.0099 1.0077 1.0087 1.0099 1.010 1.0091 1.0081 1.0084 1.0089 1.0081 1.0085 1.0084 1.0089 1.0089 1.0081 1.0091 1.0081 1.0084 1.0089 1.0082 1.0082 1.0084 1.0081 1.0089 1.0081 1.0083 1.0084 1.0083 1.0084 1.0083 1.0085 1.0083 1.0084 1.0083 1.0084 1.0083 1.0084 1.0083 1.0084 1.0083 1.0084 1.0083 1.0084 1.0083 1.0084 1.0083 1.0084 1.0083 1.0084 1.0083 1.0084 1.0083 1.0084 1.0083 1.0084 1.0083 1.0084 1.0083 1.0084 1.0083 1.0

	1.0013	021	014	020	015	013	011	017	013	019	*400	014	026	016	600	900	028	022	025	015	026	024	900	018	028	016	015	028	024	012	017
	1.0109	108	077	083	079	060	079	080	087	680	*490	960	094	081	071	088	132	132	060	080	084	680	680	160	093	105	115	111	126	107	118
	1.0062	090	044	020	047	047	047	021	043	020	1	690	057	046	039	049	073	083	062	053	057	056	052	053	090	190	890	640	064	052	040
	1.0100	076	071	077	067	047	053	064	082	074	062	081	035	034	065	061	124	160	070	890	065	073	620	029	078	100	067	106	052	980	097
	1,0099	067	990	063	062	058	063	073	072	087	062	072	043	045	029	063	125	094	890	071	690	072	082	057	084	680	080	100	058	078	104
		058	057	040	062	055	064	073	090	019	040	077	090	064	049	065	106	980	081	029	040	020	077	040	083	083	081	093	040	101	097
	1,0066 1,0089	048	051	047	029	049	059	063	020	057	043	071	190	071	038	062	083	083	940	047	058	190	068	064	040	081	620	085	690	085	078
RE, MD.	1,0058	041	023	032	047	035	036	049	042	057	026	058	065	047	020	020	065	062	065	053	053	044	063	049	055	062	064	081	057	020	053
BALTIMORE, MD	1,0051	047	019	024	038	028	045	047	021	053	010	021	064	043	014	037	058	054	026	021	048	042	021	048	052	052	053	028	058	030	043
BA	1.0042	052	025	039	023	018	036	040	025	033	600	020	029	027	027	022	990	041	036	042	044	049	035	028	020	042	037	690	040	010	043
	1,0026	190	026	045	030	031	022	031	028	036	014	056	048	036	024	012	049	021	037	023	023	045	017	026	048	035	029	070	049	010	024
	,0024	074	031	031	032	046	014	026	030	028	015	020	045	034	032	023	039	067	043	020	040	042	013	053	042	030	031	045	051	040	053
	.0062 1	074	023	047	026	090	041	035	046	020	6 3	031	053	042	020	044	046	125	075	090	062	043	023	063	020	033	092	080	073	033	071
	.0053 1	020	020	190	056	080	190	058	690	074	048	043	068	044	043	080	290	122	061	040	078	064	051	058	052	053	100	085	102	046	094
	.00076 1	065	020	062	029	790	063	020	061	080	042	690	083	063	043	070	020	123	078	070	063	062	990	020	028	07.7	102	078	960	035	980
	1914 1	1915	1916	3	91	1919	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	1941	1942	1943	1944

*Observations for the year are incomplete: extremes are for the months shown.

Table 1. Density of Sea Water - Continued
Means and Extremes

	Jan.	Feb.	Mar.	Apr.	May	June	July ORE, M	June July Aug. Sept. BALTIMORE, MD.—Continued	Sept.	Oct.	Nov.	Dec.	Means	Мах.	Min.
1945 1,0078 1,0035 1,0035 1946 040 049 029 1947 068 053 072 1948 085 081 061 1949 034 039 045	ਜ	049 053 081 039		1,0023 041 042 022 042	1.0031 047 038 032 032	1.0028 1.0029 025 028 023 028 037 045 044 048		1,0030 1,0046 039 048 027 040 046 072 061 079		1.0040 1.0044 1.0043 072 078 074 068 073 081 086 081 070 088 095 080	1.0044 078 073 081 095	1.0043 074 081 070 080	1,0043 048 051 060 057	1.0105 093 093 095 102	1.0014 018 011 014
050 033 052		063 033 038	062	037	035	029	040 039 036	061 048 047	061 064 053	075 075 078	073 083 074	037	052	083 089* 096	019 015*
1.0065		1,0064 1,0054 9,4 8,1		1.0036	1,0035	1.0036	1.0042	1.0042 1.0049 1.0063 6.6 7.5 9.3		1.0073	1.0074	1.0071	1.0055		
1.0126 1.0077 1.0051	00	1.0130 1.0132 1.0078 1.0072 1.0049 1.0036 1.0014 1.0007		1.0114 1.0051 1.0024 1.0006	1.0086 1.0045 1.0026 1.0008	1.0082 1.0046 1.0027	1.0069 1.0049 1.0005	1.0090 1.0059 1.0040	1.0104 1.0073 1.0051 1.0023	1.0128 1.0081 1.0062	1.0132 1.0083 1.0064 1.0026	1.0127 1.0082 1.00059		1.0132	1.0004
						DIAMOR	VD SHO	DIAMOND SHOAL LIGHTSHIP	HSHIP						
	1 1		1.0236	1.0242	1.0272	1.0274	1.0261	1.0247	1.0239	1.0249	1.0247	1,0255		1.0285*1.0221* 293* 199*	.0221*
1.0254 267 259 270	4500	1.0264 258 259 259 268	268 260 249 268	260 262 253 271	266 273 272	277 275 253	276 272 255	275 271 265	274 262 252	269 270 253	266 266 254	272 245 255 	1,0268 265 257	286 294 291 281*	229 224 213 227*
1.0262	03 10	1.0262	1.0256	1.0258	1.0264	1.0265	1.0264	1.0265	1.0257	1.0260	1.0258	1.0259	1.0261		
1.0284 1.0280 1.0232 1.0224	4004	1.0283 1.0278 1.0234	1.0280 1.0276 1.0227 1.0215	1.0281 1.0279 1.0225	1.0294 1.0284 1.0240	1.0290 1.0282 1.0237	1.0284 1.0281 1.0237	1.0293 1.0284 1.0238	1.0287 1.0278 1.0235	1,0285 1,0281 1,0230 1,0199	1,0288 1,0283 1,0237	1.0286 1.0276 1.0240		1.0294	1.0199

	*					*		
	1.00204 018 000 016	0.9991 1.0009		1666*0		1.0185 184 023	130 147 181 070	143
	1.0240*1.0020* 260 018 260 000 249 016	268 256 256		1.0268		1.0244*1.0185* 249 184 240 023	258 255 257 248	240
	1.0148	172 196 173	1.0162			1.0212	223 220 236 205	808
	1.0173 140 103 183	187	1.0164	1,0255 1,0243 1,0084 1,0009		1.0220 226 210	238 246 244 227	211
	1.0164 119 155 165	204 208 206	1.0174	1,0256 1,0249 1,0089		1.0224 237 198	244 247 240 215	217
	1.0146 147 194 193	203 234 206	1.0189	1.0268 1.0250 1.0083 0.9991	S.C. †	1.0222 220 134	252 249 234 162	211
. •	1.0145 138 224 132	138 223 171	1.0174	1.0260 1.0248 1.0100	(Customhouse Wharf),	1.0217 200 207	250 241 217 169	222
SOUTHPORT, N.C.	1.0114 180 200 165	168 184 202	1.0173	1,0265 1,0246 1,0076	house	1.0214	243 234 198 210	224
UTHPO	1,0093 168 197 138	100 200 219	1,0159	1,0252 1,0225 1,0081	(Custon	1,0219	233 228 239 214	215
SO	1.0146 204 159 161	182 219 199	1.0181	1,0252 1,0237 1,0109 1,0025		1.0211 206 220	234 224 222	210
	1.0114 177 171 171 126	161 191 159	1.0157	1.0251 1.0230 1.0075	CHARLESTON	1.0219 209 198	233 216 249 197	210
	1.0145 098 121 151	190 145 137	1.0141	1.0238 1.0225 1.0045		1,0208 197 171	212 187 240 198	196
	1.0141 125 091 136	153 172 089	1.0130	1.0256 1.0237 1.0051 1.0015		1,0203 207 199	195 174 240 182	170
	1.0169	170 195 133	1.0143	1,0255 1,0230 1,0057		1.0227 208 201	158 179 244 232	191
	1,0113	163 193 183	1.0153	1.0249 1.0240 1.0067 1.0016		1.0239 203 206	184 214 245 245	219
	1946 1947 1948 1949	1950 1951 1952	Mean Density Salinity	Wax. Wean Wax. Wean Min. Min.		1922 1923 1924	200000	1929

*Observations for the year are incomplete; extremes are for the months shown.

A distinct change in the density of the water in Charleston Harbor took place when the hydro-electric plant near Moncks Corner, S. C. began diverting large quantities of water from the Santee River into the March 1942. Since lighter densities have persisted under the changed conditions, the observations have Cooper River. The plant began operation in January 1942 but did not reach average production before been separated at the end of February 1942 and are presented as two series.

Table 1. Density of Sea Water - Continued Means and Extremes

Tager Jan. Feb. Mar. Apr. May June July Aug. Sept. Oct. Nov. Dec. Means Max. Min.																			
Jan. Feb. Mar. Apr. May June July Aug. Sept. Oct. Nov. Dec. Means Jan. Feb. Mar. Apr. May June July Aug. Sept. Oct. Nov. Dec. Means Jan. Feb. Mar. Apr. May June July Aug. Sept. Oct. Nov. Dec. Means Jan. Feb. Mar. Apr. May June July Aug. Sept. Oct. Nov. Dec. Nov. Dec. Means Jan. Berlin Sept. Sept. Oct. Nov. Dec. Nov. Dec. Means Jan. Berlin Sept. Oct. Nov. Dec. Dec. Dec. Dec. Dec. Dec. Dec. Dec	Min.		0	130	122	220	137	161	182	215	154	160	088	157*		0023		050 050 034	024 030 049 025
Table Tabl	Мах.			255	248	259	254	251	243	257	253	256	255	264*				1.0240*1 246 216	206 227 228 228 238
San Feb. Mar. Apr. May June July Aug. Sept. Oct. Nov. Date July Aug. Sept. Oct. Nov. Date July Aug. Sept. Oct. Nov. Date July Sept. Oct. Sept. Oct. Nov. Date July Sept. Oct. Sept. Oct. Nov. Date July Sept. Oct. O	Means			231	218	242	228	217	214	237	622	232	225	1				1.0121	120 111 120 103
Same Figh Mar. Apr. May June July Aug. Sept. Oct. Nov.	Dec.		0	219	236	236	235	223	230	243	245	241	225	1	1.0232	1.0260 1.0244 1.0218		1,0135 155 132	123 130 106 091
Jan. Feb. Mar. Apr. May June July Aug. Sept. Oct.	Nov.	panı		206	227	241	228	217	230	239	245	245	240	1 1	1.0232	1.0256 1.0242 1.0213	eries †	0	123 115 139 127
Jan. Feb. Mar. Apr. May June July Aug.	Oct.	- Contir		217	222	237	211	225	224	238	244	234	235	i			s puos	.0166 154 132	093 131 154 137
Jan. Feb. Mar. Apr. May June July Aug.	Sept.		.0246	523	187	248	175	239	211	244	235	216	214	1	.0221		S.C Se	.0164 137 135	100 133 136 144
Jan. Feb. Mar. Apr. May CHARLESTON 1.0202 1.0199 1.0209 1.0195 1.0218 1.0218 1.0228 226 213 228 226 213 228 226 213 228 226 213 228 228 226 223 242 245 24	Aug.	Wharf)	.0245	240	233	253	214	238	226	240	223	218	194	1	.0227		Wharf),	.0175 121 116	126 112 123 125
Jan. Feb. Mar. Apr. May CHARLESTON 1.0202 1.0199 1.0209 1.0195 1.0218 1.0218 1.0228 226 213 228 226 213 228 226 213 228 226 213 228 228 226 223 242 245 24	July	smound	.0230	221	233	251	225	237	223	241	226	242	168	8 g			house	.C160 112 114	113 137 109 114
Jan. Feb. Mar. Apr. May Jan. Feb. Mar. Apr. May CHARLESTON CHARLESTON CHARLESTON CHARLESTON CA CHARLESTON C C C C C C C C C C C C C C C C C C	June	4		222	240	241	246	523	220	236	222	241	240	1			(Custor		133 103 103
ar Jan. Feb. Mar. 1930 1.0202 1.0199 1.0209 1.031 227 228 226 240 227 228 239	May	LESTON	.0218	243	229	243	245	195	200	239	228	234	243	1 1				.0142 099 086	127 074 105 089
ar Jan. Feb. Mar. 1930 1.0202 1.0199 1.0209 1.020 1	Apr.	CHAR	.0195	246	216	242	245	134	199	238	214	222	224	1	.0212	.0252 .0228 .0197	CHARLE	.0139 098 085	125 089 102 070
ar Jan. Feb. 1930 1.0202 1.0199 1931 227 228 1932 250 243 1934 240 235 1940 243 237 1940 244 227 1940 244 227 1940 244 227 1941 238 242 1942 200 205 1942 200 205 1942 1.024 1.0194 1.024 1.0121 1.0199 1944 1.0210 1.0199 1945 1.0121 1.0109 1945 1.0121 1.0109 1946 107 094 1947 132 102 1948 098 088	Mar.		.0209	240	191	239	239	191	192	234	185	215	236	1				.0144 101 084	118 112 101 061
ar Jan. 1930 1.0202 1931 227 250 1932 250 1934 240 243 1942 243 1942 200 244 1942 200 244 1942 200 244 1942 200 244 244 244 244 244 244 200 244 244 244 200 244 244 200 244 244 200 244 244 200 244 200 244 200 244 200 244 200 244 200 244	Feb.		.0199	243	188	235	234	201	187	230	237	227	242	205				.0109	125 094 102 086
ar 1930 1931 1933 1933 1933 1934 1940 1942 1942 1943 1944 1944 1946 1946 1946	Jan.		.0202	227	216	240	235	223	218	222	243	244	238	200	.0224	1.0264 1.0240 1.0210		0121	128 107 132 092
	Year		930	1931	1933	1934	1935	1936	1937	1938	1939	1940	1941	1942		Max.			1945 1946 1947 1948

038 061 039		1.0024		1.0084*		.0137*0.9992* 076*0.9986*		1,0028*		1.0013	015		8666 0	1666.0	1.0016	600	004	025
229 247 237		1.0247		1.0148*1.0084* 135* 054*		1.0137*		1.0138*1.0028* 167* 038*			237	224*	211			221	225	222
127 138 124	1.0120			11		1 1		1 1		1,0118	133	2 8	113	124	097	101	960	060
133	1.0129	1.0247 1.0189 1.0076		1.0129		1.0040	R., S.C.	1.0156		1,0120	137	147	160	107	140	074	052	116
151 138 141	1.0138	1.0241 1.0206 1.0076		1.0138	ER, S.C.	1,0057 1		1.0172		1.0140	159	148	160	134	114	072	132	102
152	1.0139	1.0240 1.0218 1.0075	, ;	1.0127	R RIVER,	1.0050 1	STON (Virginia - Carolina Chemical Co. Wharf), ASHLEY	1.0163	GA.	1.0142	168	156	152	123	114	130	141	104
128 142 134	1.0130	1.0246 1.0205 1.0070	ER, S.C.	1.0109 1.0127	COOPER	1.0028	Co. Wh	1.0139	RIVER,	1.0101	161		144	116	135	157	131	105
150 130 151	1.0131	1.0240 1.0203 1.0073	WANDO RIVER,	1.0091	TERMINALS,	1.0019	nemical	1.0127	PULASKI, SAVANNAH RIVER, GA.	1.0115	148	9 B	124	132	139	145	150	116
116	1.0120	1.0224 1.0189 1.0065		1.0097	TERM	1.0015	olina Cł	1.0131	KI, SAV		084	1 8	142	159	126	124	125	101
111	1.0113	1.0228 1.0184 1.0065	CAINHOY,	1,0105	CHARLESTON	1.0007	ıia - Car	1.0134			160	9 1 B 1 2	119	154	860	110	860	095
109	1.0104	1.0205 1.0156 1.0068	S	1.0104		1,0010	(Virgir	1.0129	FORT		148 123	114	290	097	990	106	093	063
111	1.0101	1.0198 1.0157 1.0059		1,0064	NORTH	8666.0	LESTON	1,0089			115	087	620	113	054	052	039	070
124 117 078	1.0102	1.0194 1.0053 1.0063		1,0084		1.0001	CHARLE	1,0085			106	067	052	094	062	063	045	Coo
125	1.0110	1.0237 1.0172 1.0064 1.0041		1,0105		1,0017		1,0112			1160	1 1	118	101	067	280	24.0	000
113	1.0120	1.0215 1.0176 1.0066 1.0034		1.0124		1.0026		1.0150			092 087		094	156	046	094	280	07.0
1950 1951 1952				1951		1951		1951		940	1941	1943	1944	1945	1946	1947	1948	2421
																		- 1

†See footnote (†) on page 31. *Observations for the months shown.

Table 1. Density of Sea Water - Continued Means and Extremes

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Means	Мах.	Min.
				FORT		PULASKI, SAVANNAH RIVER,	VANNA	H RIVE		GA Continued	. per				
1950 1951 1952	1.0115	1.0100 113 115	1.0101	1.0117 097 044	1.0134 113 110	1.0116 144 141	1.0163 162 173	1.0159 161 178	1.0104 173 182	1.0137 170 163		1,0120 1,0140 1,0126 165 138 139 163 148 132	1.0126 139 132	1.0232 229 234	1.0045 043 010
Mean Density Salinity	1.0099	1.0092	1.0074	1.0077	1.0104	1.0124	1.0138	1.0143	1.0137	1.0143	1.0137	1.0124	1.0116		
Max. Mean Max. Mean Min. Min.	1.0219 1.0184 1.0047 1.0009	1.0207 1.0164 1.0039 0.9997	1.0221 1.0149 1.0030 0.9998	1.0208 1.0142 1.0029 1.0000	1.0237 1.0170 1.0047		1.0220 1.0231 1.0199 1.0214 1.0061 1.0074 1.0050 1.0024	1.0234 1.0219 1.0075	1.0227 1.0206 1.0073 1.0032	1.0229 1.0207 1.0086	1.0230 1.0198 1.0076	1.0218 1.0185 1.0070		1.0237	0.9997
						FE	RNAND	FERNANDINA, FLA.	Ä.						
1944	1	i	i	i	ì	1.0219	1.0204	1,0197	1,0188	1,0185	1.0219 1.0204 1.0197 1.0188 1.0185 1.0195 1.0216	1,0216	i	1.0246*1.0097*	*2600*1
1945 1946 1947	1.0	1.0209	1.0226 213 194	1.0243 218 185	1.0246 223 214	256 228 227	223		186 196 218			221	1.0	275 264 261*	134 155 104*
1948	199	177	193	211	219	227	236	239	193	190	216	225	210	268	147
3950 1951 1952	228 220 221	233	222 227	233 247 205	249 242 230	259 254 231	241 261 245	239 260 242	176 258 225	178 221 223	195 214 234	225 223 238 238	223	272 276 266*	069 176 063*
Mean Density Salinity	1.0207	1.0203 1.0204 27.6 27.7	1.0204	1.0210	1.0229	1.0238	1.0232	1.0226	1.0206	1.0191	1.0205	1.0215	1.0214		
Max. Wean Max. Wean Min.	1.0254 1.0233 1.0182	1.0244 1.0228 1.0160	1.0253 1.0234 1.0171	1.0272 1.0241 1.0182 1.0082	1.0270 1.0254 1.0197 1.0162	1.0275 1.0261 1.0213 1.0173	1.0274 1.0262 1.0195	1.0263 1.0263 1.0167	1.0276 1.0253 1.0155	1.0253 1.0237 1.0144 1.0097	1.0262 1.0238 1.0171	1.0250 1.0239 1.0191		1.0276	1.0063

NAYPORT, FLA.		*					* * * * *	* * *	4	
NAYPORT, FLA.		4004	014 036 060		0.9998		1.0250 252 250 184 191			244 236 235 240 240
NAYPORT, FLA.		0	270 274 267		1.0284		1.0274* 288* 276* 276*	280* 274* 279*	278*	277 275 276 293 278
### MAYPORT, FLA. 1.0154 .0166 .0185 .0222 1.0225 .0225 .01016 .0089 .0120 .0120 .0128 .0228			184 193 174	1,0165			'	8 8 8 8 8 8	i	0
### MAYPORT, FLA. 1.0154 .0166 .0185 .0222 1.0225 .0225 .01016 .0089 .0120 .0120 .0128 .0228		1.0150 164 135 132 165	148 150 161	1.0151	1.0252 1.0226 1.0065		1.0265	254	258	252 251 265 265 262
### PAYPORT, FLA. 1.0154 1.0166 1.0185 1.0221 1.0215 1.0236 1.0116 1.0096 1.0089 1.0120 1.65 1.58 1.84 1.86 1.83 1.62 1.14 0.92 1.84 1.51 1.54 1.59 1.59 1.58 1.69 1.88 1.86 1.60 1.07 1.51 1.54 1.69 1.59 1.90 2.06 2.14 2.09 1.89 1.43 1.15 1.61 1.61 1.61 1.61 2.17 2.17 2.17 2.17 2.17 1.61 1.61 1.61 1.61 2.17 2.17 2.17 2.17 2.17 1.61 1.61 1.61 2.19 1.026 1.026 1.026 1.026 1.026 1.62 1.62 1.025 1.026 1.026 1.026 1.026 1.026 1.026 1.62 1.62 1.62 1.62 1.62 1.026 1.026 1.026 1.026 1.62 1.62 1.62 1.62 1.62 1.62 1.62 1.62 1.62 1.62 1.62 1.62 1.62 1.62 1.62 1.62 1.62 1.62 1.62 1.62 1.62 1.62 1.62 1.62 1.62 1.62 1.62 1.62 1.62 1.62 1.62 1.62 1.62 1.62 1.62 1.62 1.62 1.62 1.62 1.62 1.62 1.62 1.62 1.62 1.62 1.62 1.62 1.62 1.62 1.62 1.62 1.62 1.62 1.62 1.62 1.62 1.62 1.62 1.62 1.62 1.62 1.62 1.62 1.62 1.62 1.62 1.62 1.62 1.62 1.62 1.62 1.62 1.62 1.62 1.62 1.62 1.62 1.62 1.62 1.62 1.62 1.62 1.62 1.62 1.62 1.62 1.62 1.62 1.62 1.62 1.62 1.62 1.62 1.62 1.62 1.62 1.62 1.62 1.62 1.62 1.62 1.62 1.62 1.62 1.62 1.62 1.62 1.62 1.62 1.62 1.62 1.62 1.62 1.62 1.62 1.62 1.62 1.62 1.62 1.62 1.62 1.62 1.62 1.62 1.62 1.62 1.62 1.62 1.62 1.62 1.62 1.62 1.62 1.62 1.62 1.			109 144 114	1.0123	1.0246 1.0226 1.0039		0	264	255	259 257 266 266 266 256
140 154 1.0166 1.0185 1.0221 1.0215 1.0236 1.0116 1.0096 1145 158 184 186 183 176 162 114 187 183 184 199 188 136 184 185 184 199 188 136 184 185 184 199 188 136 184 185 184 199 188 136 184 187 183 184 187 219 247 233 223 221 227 22.0 25.8 28.0 28.8 24.6 23.4 20.8 21.7 22.0 25.8 28.0 28.8 24.6 23.4 20.8 1.0251 1.0251 1.0254 1.0254 1.0254 1.0255 1.0251 1.0254 1.0255 1.0251 1.0			129 159 143	.0127				259	254	255 262 265 265 260 258
140 154 1.0166 1.0185 1.0221 1.0215 1.0236 1.0116 1.0096 1145 158 184 186 183 176 162 114 187 183 184 199 188 136 184 185 184 199 188 136 184 185 184 199 188 136 184 185 184 199 188 136 184 187 183 184 187 219 247 233 223 221 227 22.0 25.8 28.0 28.8 24.6 23.4 20.8 21.7 22.0 25.8 28.0 28.8 24.6 23.4 20.8 1.0251 1.0251 1.0254 1.0254 1.0254 1.0255 1.0251 1.0254 1.0255 1.0251 1.0		1,0089 1 092 150 160	175 221 212), FLA.		268	267	265 269 269 269 269
1.0154 .0156 .0185 .0221 .0215 .0215 .0215 .0215 .0215 .0215 .0215 .0215 .0215 .0215 .0215 .0215 .0221 .0215 .0221 .02	r, FLA.		243 221 227			4 (ocean		265	272	266 266 269 269 279
1.0154 .0166 .0185 .0221 .0215 .0215 .0215 .0215 .0215 .0215 .0215 .0215 .0215 .0215 .0215 .0215 .0221 .0215 .0221 .02	AYPOR'		206 223 221			A BEACH	0	270 268	i 1	269 267 271 275 263
1.0154 .0156 .0185 .0221 .0215 .0215 .0215 .0215 .0215 .0215 .0215 .0215 .0215 .0215 .0215 .0215 .0221 .0215 .0221 .02	⅀		232 233 207			AYTON/	.0262 275 271 271 266	268	1 1	270 272 272 274 274
1.0154 1.0166 1.0185 1.0221 145 158 184 186 187		.0215 183 169 184 206	241 247 200			Ď		268	8 E 6	271 270 271 276 268
1.0154 1.0166 1.0185 145 158 184 182 169 139 137 107 100 151 154 169 145 166 157 107 100 151 1.0246 1.0254 1.0241 1.0246 1.0254 1.0251 1.0251 1.0278 1.0056 1.0020 1.0001 1.0256 271 266 255 251 267 257 267 269 258		.0221 186 138 190	217 219 154	.0189 25.8	0284 0254 0102 0053		0	256	8 8	270 263 257 271 271
1.0154 1.0156 145 158 182 169 182 169 187 107 151 151 154 1.024 145 154 157 107 150.8 21.7 1.0251 1.024 1.0056 1.0058 1.0056 1.0056 1.0056 271 255 251 257 257 258 258 258 258 258 258 258 258 258 258		.0185 184 139 100 169	183 187 133				266	263	8 8	269 253 260 263 263
1.0154 1.0154 1.0151 1.00241 1.00241 1.0025		.0166 158 169 107	187 164 160					231 251 263		267 252 259 269 264
		.0154 145 182 137 151	141 145 156				1.0266	236 253 267	8	257 252 248 270 257
Mean With.		1945 1946 1947 1948	1950 1951 1952	sity	Max.		925	1930 1931 1932	93	1940 1941 1942 1943 1944

*Observations for the year are incomplete; extremes are for the months shown.

Table 1. Density of Sea Water - Continued Means and Extremes

Min.		1.0226 228* 212* 213	234*		1.0184	.0213*1.0015* 186*0.9999* 172*1.0097*	1.0246*	1.0258*
Max.		1,0261 1,0226 283* 228 278* 212 260 213 291 226	275*		1.0293		1.0304*1.0246* 284 244	1.0286*1.0258*
Means		1.0262	•	1.0261		5 8	1.0267	İ
Dec.		1,0248 244 225 261 261 250	1	1.0253	1.0273 1.0261 1.0244 1.0212	1.0165	1.0265	1.0271
Nov.		1.0247 246 261 256	1	1.0255	1.0275 1.0264 1.0246	1,0125 1,0165 085 136	1,0263	1.0271
Oct.	tinued	1,0246 249 244 242 242 243	8 8 0	1.0253	1.0289 1.0266 1.0236	LA. 1.0082 069	1.0274	1.0269
Sept.	A Con	1.0264 260 261 261 261 263	264	1.0265	1.0291 1.0273 1.0250	River), FLA. 1.0040 1.0082 094 069	LA. 1.0269 269	1.0269
Aug.	an), FL	1.0270 270 267 266 266	266	1.0268 36.0	1.0278 1.0273 1.0260	1.0061	IOVA BEACH, FLA. 1.0269 1.0269 1.0269 271 270 269	CH, FL/
July	DAYTONA BEACH (ocean), FLA Continued	1,0269 272 267 272 272 265	266	1.0269	1.0293 1.0275 1.0261 1.0241	DAYTONA BEACH (Halifax River), FLA. 1.0190 1.0200 1.0161 1.0061 1.0040 1.0 082 101 015 094	CANOVA BEACH, FLA. 271 1.0269 1.0289 1.0 271 271 270	PALM BEACH, FLA.
June	NA BEA	1,0273 274 267 272 256	271	1.0269	1.0285 1.0276 1.0262	1.0200 101	0	PA 1.0272
May	DAYTO	1,0272 270 266 266 267 250	271	1.0267	1.0285 1.0274 1.0256 1.0241	DAY 1.0190 082	1.0270	1.0275
Apr.		1,0270 263 263 263 256 247	268	1.0263	1.0286 1.0272 1.0253	1.0155	1.0269	
Mar.		1.0270 258 241 244	265	1.0261	1.0288 1.0269 1.0251 1.0216	1.0096		1.0274 l
Feb.		1,0263 246 251 256 226	266	1.0256	1.0263 1.0263 1.0248	1.0178	.0265 1.0266 1.0267	8 8
Jan.		1,0256 251 254 254 240 258	257	1.0255	1.0274 1.0263 1.0245 1.0215	1.0179	-4	
Year		1945 1946 1947 1948 1949	1950	Mean Density Salinity	Max. Wean Max. Wean Win.	1946 1947 1948	1951	1946

				_		
		252 221 221 217*	234* 243*	1.0217	1.0233 255 237 242	238 246 206 214 214 256
	1.0274 1 275* 287* 286 278*	283 303 273 275	278*	1.0303	1,0279 284 280 283	274 282 283 285 285
	265	268 268 259 263	1.0265	35.7	1.0268 272 267 268	264 263 269 269 270
	1.0263 262 275 264	262 259 257 261 261	1.0262	35.3 1.0269 1.0267 1.0252	1.0261 275 264 258	20 20 20 20 20 20 20 20 20 20 20 20 20 2
	1,0260 265 278 260 260 259	256 263 259 259 249 260	262	35.1 1.0286 1.0269 1.0250	1,0261 270 265 265	270 264 272 255 272
	1,0259 276 259 259	257 260 241 	256	34.6 1.0281 1.0267 1.0247 1.0221	1,0264 260 255 258	267 260 266 254 268
Ą.	1,0253 261 274 256 256	257 266 255 	266 257 1.0261	35.1 1.0283 1.0269 1.0251 1.0229	1.0264 265 256 256 270	266 263 270 275 269
MIAMI BEACH, FLA.	1.0269 269 279 265 266	265 274 256 256 271 264	262 259 1.0267	35.9 1.0288 1.0273 1.0259	5T, FLA. 1.0261 273 261 274	265 269 272 275
AMI BE/	1,0269 266 271 272 272	268 269 256 272 266	270	1.0288 1.0276 1.0261	KEY WEST, FLA 1.0268 1.0261 275 273 266 261 269 274	262 267 275 277 273
M	1.0267 271 269 272	274 278 262 268 268 267		36.3 1.0278 1.0262 1.0255	1.0268 276 275 272	253 269 269 271 272
	1.0270 267 267 272 272	276 277 262 266 266	272 272 1.0270	1.0290 1.0276 1.0263	1.0272 278 271 271	271 264 273 273
	1,0270 264 269 272 270	274 264 265 269	N 63 61 6	36.2 1.0285 1.0275 1.0263	1.0275 276 272 272	266 264 272 272
	1.0268 272 271	240 265 265 265	269 268 1.0268	36.0 1.0283 1.0274 1.0260	1.0274 274 268 271	266 259 271 273 269
	1.0269 270 268 263	266 266 265 265 266	266	1.0282 1.0272 1.0261 1.0264	1,0270 271 273 268	257 259 266 271 268
	1.0267 263 266 270 270	266 266 262 262 263	252 265 263	1.0283 1.0271 1.0255 1.0234	1.0272 270 275 261	258 257 248 270 252
	1940 1941 1942 1943	1945 1946 1947 1948	1950 1951 Mean Density	Salinity Max. Mean Max. Mean Min. Min.	1926 1927 1928 1929	1993 1993 1993 1993 1993 4893

*Observations for the year are incomplete; extremes are for the months shown.

Table 1. Density of Sea Water - Continued
Means and Extremes

								_											
Mis	IMTHIT.		1.0253	247	263	242	253*	933*	254	255	251	257	249	243			1.0206		1.0129* 145 125
Mos	Max.		1.0289 1	289	285	289	286*	286*	287	286	285	281	280	283		1.0289	-		1.0227*1.0129* 214 145 243 125
Moone	MEGIIS		1.0272	272	275	273	1		272	271	272	271	569	270	1.0270				1.0181
2	Dec.		1.0266	274	274	273	1	276	270	269	271	273	271	271	1.0269	1.0286 1.0274 1.0262	1.0242		1.0187
1012	INOV.		1.0266	278	275	275	:	273	270	270	269	272	270	269	1.0269		1.0246		1.0184
d	Oct.		1.0263	267	278	261	270	272	261	263	263	263	266	268	1.0264		1.0214		1.0165
5	ndac	penu	1.0264	269	273	269	264	272	274	269	266	569	569	271	1.0268 36.0		1.0250	Ę.	1.0141 167 145
A series	Aug.	KEY WEST, FLA Continued		272	276	274	276	274	271	279	271	270	267	270	1.0271		1.0253	ST. PETERSBURG, FLA.	.0155 177 204
Means and Extremes	duis	ST, FLA	1,0277 1,0278 268 267	274	274	277	280	270	269	278	273	273	271	267	1.0272 36.6		1.0253	ETERSB	1.0187 1 205 233
TWT L	anne	KEY WE	1.0284	278	274	272	280	269	274	280	277	277	270	270	1.0272		1.0238	ST. P	1,0208 207 228
	May		1,0282	269	277	278	278	275	277	272	281	275	271	273	1.0274 36.8		1.0247		1,0204 194 222
	Apr.		1.0274	272	277	274	269	277	278	270	277	270	268	277	1.0273		1.0648		1,0197 179 215
	Mar.		1,0275	270	275	277	270	275	274	268	277	272	268	271	1.0271		1.0646		1,0209
-	reb.			270	276	274	268	1	272	261	273	271	287	264	1.0268		I • 0245		1,0216 158 197
•	Jan.		1.0270 1.0271	271	270	272	267	1 1	277	268	272	270	273	270	1.0268		9020•1		1,0218 176 194
,	Y ear		1935	1937	1938	1939	1940	1946	1947	1948	1949	1950	1981	1952	Mean Density Salinity	n Max. n Min.			1947 1948 1949

1950 1951 1952	Mean Density Salinity	Mex. Mean Mex. Mean Min. Min.		1922 1923 1924	1925	1944	1945 1946 1947 1948 1949	1950	Mean Density Salinity	Max. Mean Max. Mean Min. Min.
186 186 209	1,0195	1.0227 1.0202 1.0185		1.0204 208 207	214	1 1	194 181 223 162	200	1.0197	1.0237 1.0216 1.0171 1.0119
199 189 211	1.0195	1.0220 1.0200 1.0188		1,0214 203 188	184	1	192 184 186 188 188	209	1.0192	1.0229 1.0215 1.0153 1.0095
204 196 209	1.0200	1.0207 1.0207 1.0192 1.0159		1,0208 208 160	166	1	207 177 180 134 175	208	1.0182	1.0235 1.0208 1.0144 1.0092
210 200 200	1.0200	1.0219 1.0205 1.0194		1.0213 212 160	179	1	224 153 184 150 168	182	1.0179	1.0236 1.0208 1.0144 1.0102
218 205 208	1.0208	1.0229 1.0216 1.0201		1,0211 186 171	196	212	200 189 180 158 158	219	1.0189	1.0242 1.0215 1.0152
223 222 218	1.0218	1.0243 1.0226 1.0198	IJ	1.0206 212 172	211	204	197 201 209 171 203	222	1.0199	1,0251 1,0213 1,0176
221	1,0213	1.0243 1.0222 1.0202 1.0170	DAR K	1,0198 192 177	202	200	214 198 199 199 205	193	1.0198	1,0231 1,0217 1,0175 1,0155
201	1.0190	1,0229 1,0207 1,0169 1,0134	CEDAR KEYS, FLA	1,0192 175 189	193	209	199 178 193 170 169	190	1.0188	1.0225 1.0210 1.0160 1.0120
168 203	1.0165	1.0213 1.0180 1.0152 1.0152	A.	1.0191 195 205	219	213	181 198 186 184 156	144 188	1.0188	1.0231 1.0213 1.0157 1.0066
173	1,0168	1.0197 1.0181 1.0156 1.0125		1,0206 184 196	211	180	190 196 181 192 170	172 196	1.0190	1.0225 1.0214 1.0154 1.0109
185	1.0184	1.0206 1.0192 1.0176 1.0155		1,0201 200 206	207	193	205 220 181 200 185	183	1.0198	1.0230 1.0218 1.0173 1.0128
191 205 199	1.0192	1,0210 1,0197 1,0186 1,0173		1.0207 218 215	198	181	186 215 175 204 200	190	1.0198	1.0233 1.0215 1.0178
198	1.0194			1,0203 199 187	198	1	199 191 190 176	193	1.0192	
234 225 222*		1.0243		1,0234 233 231	231	233*	230 235 235 220 226	251		1.0251
150 177 194*		1.0125		1.0155 137 102	097 095*	109*	138 106 119 092 099	102		1,0066

*Observations for the year are incomplete; extremes are for the months shown.

Table 1. Density of Sea Water - Continued
Means and Extremes

	Min.		010001	100	010	017	010	000	510	013	027	011	020	200	204	013	01.4	013*	600	010	003	800	0.9997	1.0047	0.9997	7666.0	0.9996	1.0018
	Max.		1.0177 1.0125 1.0227	223	202	218	215	189	215	228	216	229	237	229	215	158	239	212*	220	217	212	213	230	211				214
	Means		1.0125	<u></u>	960	131	108	100	136	151	143	122		120	1.02	060	108	1	123	146	111	134	660	132	980	104	112	112
	Dec.		1.0177	174	129	154	165	075	127	170	146	188	153	44	1C	660	132	175	157	156	172	179	128	172	156	102	048	168
	Nov.			180	130	(3) (-) (-)	176	101	1117	138	171	201	151	191	127	्र	7.43	57.5	176	388	187	163	176	175	1,60	150	144	102
	Oct.		1,0180 1,0196	203	063	2	143	107	153	186	167	191	960	178	135	120	105	108	176	174	145	191	134	14	124	1:1	171	179
	Sept.		. 6910.1	208	056	162	1.36	757	163	156	189	153	193	124	126	092	50	690	154	159	60 60 mi	130	080	147	104	140	148	142
	Aug.	A, FLA	1.0088 1.0099 1.0122 1.0169	193	107	ार	0.97	(); ;=0 ;mi	161	part orga part	149	160	131	300	072	102	070	ଠ୍ୟୁ	0.93	111	230	124	092	105	031	150	116	084
Means and Everences	July	PENSACOLA, FLA	. 6600.1	138	141	125	047	080	6-4 (10) 0-4	202	명 ()) (대	5**1 3**4 6**4	155	131	124	105	110	095	039	119	070	11.3	4	7	066	114	142	076
DIAT	June	PE	1.0088	181	120	136	040	117	176	168	141	151	740	100	132	067	112	083	106	181	109	123	102	122	054	056	138	102
	May		1.0104	175	097	147	052	094	150	135	142	057	150	020	107	035	087	8 3	109	174	093	113	032	088	057	062	125	081
	Apr.		1.0098	154	033	086	077	084	112	107	545	029	140	013	083	020	045	095	102	005	055	029	014	108	042	022	049.	080
	Mar.		1.0095	111	ORA	990	098	026	103	127	137	083	130	075	060	060	980	090	070	125	190	072	073	105	020	063	.38	160
	Feb.		1,0001	049	081	108	140	130	079	131	137	103	189	154	065	108	105	8 8	113	154	132	150	119	108	060	123	660	080
	Jan.		1,0113	078	110	143	125	126	112	117	111	101	194	155	047	109	104	8	182	121	106	150	131	134	030	960	132	074
	Year		1924	1925	1926	1927	1 928	1929	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	1941	1342	1943	1944	1945	1946	1947	1948	1949

037* 027* 012		9666*0		1.0121	256*0.9984* 269 1.0010 273*1.0107*		0.9984		0.9991	0.9989 0.9992 0.9986 0.9987 0.9988
214* 229* 245		1.0245		1,0255*1,0121*	256* 269 273*		1.0273		1.0221*0.9991*	
156	1.0122	<u> </u>		3 1 1	1.0190	1.0195		***********	1	1.0013 1.0014 1.0209 1.0013 1.0025 1.0221 1.0024 1.0220 1.0007 1.0027 1.0207 1.0076 1.0024 1.0216
184	1.0151	1.0239 1.0199 1.0091 0.9996		1,0238	221 214 257	1.0232	1.0270 1.0257 1.0165		1,0034	1.0013 1.0013 1.0041 1.0007
173	1,0165	1.0245 1.0205 1.0124 1.0032	ď	1.0232	239 241 259	1.0243 32.8	1.0273 1.0260 1.0199 1.0156		1.0073 1.0034	1.0043 1.0064 1.0052 1.0071
187	1.0155	1.0230 1.0197 1.0113 1.0027	. of), L	1.0208	190 219 247	1.0216	1.0266 1.0245 1.0189 1.0135		1,0062	1.0026 1.0054 1.0061 1.0072
166	1.0139	1.0225 1.0179 1.0097	GRAND ISLE (Drilling Platform 8 miles SE. of), LA.	1.0170 1.0178 1.0185 1.0204 1.0203 1.0208 1.0232	199 200 228	1.0208	1.0254 1.0229 1.0184 1.0170	Α.	1,0010 1,0055 1,0079	1.0045 1.0085 1.0033 1.0064 1.0072
125 167 174	1,0113	1.0219 1.0169 1.0068 0.9997	form 8	1.0204	158 187 229	1.0194	1.0257 1.0234 1.0151	EUGENE ISLAND, LA.	1,0055	1.0012 1.0027 1.0041 1.0034 1.0006
148 137 171	1.0121	1.0215 1.0171 1.0071	ing Plat	1,0185	156	1.0182	1.0245 1.0219 1.0112	ENE IS	1,0010	0.9997 1.0004 1.0005 1.0013
148 144 132	1.0120	1.0214 1.0171 1.0074 1.0013	LE (Drill	1,0178	191	1.0184	1.0227 1.0222 1.0146	EUG	0,9998	1.0003 1.0001 1.0006 1.0019
098 130 100	1.0102	1.0222 1.0161 1.0056 1.0002	AND IS	1.0170	163	1.0166	1.0246 1.0233 1.0109		1,0001	0.9997 1.0007 1.0000 1.0003
087 081 068	1.0076	1.0216 1.0135 1.0036 0.9997	GR	8	1.0187	1.0190 1.0166 25.9 22.7	1,0260 1,0253 1,0112 1,0099		1.0040	0.9997 1.0001 1.0018 1.0016 0.9998
140 144 109	1.0090 1.0076 12.8 11.0	1.0237 1.0158 1.0034 0.9997		1	1.0151	1.0175	1.0269 1.0250 1.0083		i	1.0002 0.9998 1.0026 1.0009
167	1.0116	1.0231 1.0169 1.0063		•	1.0119 175 207	1.0167	1.0270 1.0243 1.0034 0.9984		1	1.0022 0.9998 1.0000 1.0006 0.9997
162	1.0121	1.0220 1.0181 1.0052		1 1	1.0164 196 180	1.0180 1.0167 24.6 22.9	1.0257 1.0241 1.0104 1.0081		!	1945 1.0008 1946 1.0039 1947 1.0001 1948 1.0003
1950 1951 1952	Mean Density Salinity	Max. Mean Max. Mean Min. Min.		1949	1950 1951 1952	Mean Density Salinity	Max. Mean Max. Mean Min. Win.		1944	1945 1946 1947 1948

*Observations for the year are incomplete; extremes are for the months shown.

Table 1. Density of Sea Water - Continued
Means and Extremes

	Min.		0.9973 0.9986 0.9977*		0,9973		.0020* 018 022	059* 020* 041* 097	040 051 011 061 028
	Max.		1.0207 0.9973 1.0159 0.9986 1.0185*0.9977*		1.0221		1.0259*1.0020* 249 018 250 022	270* 245* 250 250	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
	Means		1.0010	1.0021			1.0156	171	197 172 176 184
	Dec.		1.0009	1.0030	1.0208 1.0143 0.9992 0.9977		1.0197 124 193	169 161 153 163	155 193 213 210 187
	Nov.		1.0030	1.0046	1.0211 1.0173 0.9996 0.9990		1,0192 171 185	130 169 178 178	211 206 194 212
	Oct.		1.0025 1.0042 1.0064	1.0054 8.1	1.0216 1.0167 1.0000 0.9986		1.0192 175 192	182	187 213 197 177 218
	Sept.	ntinued	1.0007	1.0052	1.0220 1.0151 0.9996 0.9985			244 195, 171 170	234 237 212 188 222
extremes	Aug.	LA Co	1.0008 1.0015	1.0025	1.0221 1.0122 0.9998 0.9991	N, TEX.	224 224 229	256 209 201 208 191	243 235 234 176 241
Means and Extremes	July	SLAND,	1.0002	1.0007	1.0186 1.0072 0.9995 0.9992	GALVESTON, TEX.	1.0177 : 143 186	228 172 158 192 121	230 230 223 196 228
IMI	June	EUGENE ISLAND, LA Continued	0.9999 1.0001	1.0005	1,0138 1,0059 0,9996 0,9992	GA	1.0074 1.0177 1.0226 1.0204 134 143 224 191 095 186 229 221	191 137 182 085	130 227 175 156 208
	May	EU	0.9999 0.9998 1.0002	1.0002	1.0139 1.0053 0.9993 0.9989		1.0138	203 066 115 171	154 188 149 153
	Apr.		0.9996 0.9996 1.0000	1.0007	1.0220 1.0074 0.9992 0.9986		1,0063	199 064 193 159	202 180 171 165 096
	Mar.		0.5999 1.0002 1.0006	1.0006	1.0188 1.0089 0.9992 0.9985		1.0171 154 : 110	204 123 156 129	162 174 099 143
	Feb.		1.0007 (0.9996 1.0004 1	1.0004]	1.0202 1.0072 0.9989 (1.0171 1 146 146	218 151 117 151 125	136 065 167 127
	Jan.		1.0002	1.0014]	1.0221 1 1.0108 1 0.9993 (1.0196 1 207 090	200 148 162 155	141 125 181 177
	Year		1950	Mean Density Salinity	Max. Mean Max. Mean Min. Min.		1922	1925 1926 1927 1928 1929	1930 1931 1932 1933 1934

022* 087 011 031	015 038 021 052*	020 020 045 077 055	031 144 099	1,0011	2,010	129	144* 214* 171
248* 256 251 251	246 259 231 264*	245 260 244 269 246	238 266 265	1.0299		252	301* 315* 298
136 192 177 204	190	134 136 166 186 159	149 204 193	1.0171			230
131 201 193 209 209 216	048 154 181 173 163	1,52 113 171 210 146	201 200 202	1.0173 23.7 1.0238 1.0129 1.0015	A990 F		223
164 184 209 210 216	178 114 179 181 200	166 081 199 213 155	187 197 206	1.0182 24.8 1.0247 1.0216 1.0135	1,000,1	178	261 232 187
166 191 208 212 223	208 133 169 191	128 160 203 200 116	156 183 202	1.0182 24.8 1.0253 1.0211 1.0147		175	251 238 185
189 202 221 185 248	205 205 152 152	126 182 181 191 208	163 209 212	1.0199 27.1 1.0295 1.0233 1.0162	. 10017		260 269 243
206 229 244 225 235	219 206 195 247	182 231 176 244 191	202 242 220	1.0219 29.7 1.0299 1.0252 1.0094	T, TEX		288 299 279
140 179 230 220 189	190 124 119 	156 149 188 215 188	175 225 176	1.0185 25.2 1.0260 1.0229 1.0134	ROCKPORT, TEX.	196	292
079 152 205 167 179	187 099 119 169 116	152 075 148 196 170	110 225 183	1.0151 20.8 1.0253 1.0209 1.0020	RC 1.0230 .	184	209
084 168 193 104	202 125 078 192	123 120 154 141	119 188 180	1.0144 19.9 1.0264 1.0083 1.0021	0.193		192 254 247
184 200 151 134 182	210 146 150 179 168	068 155 151 145 128	140 203 152	1.0152 20.9 1.0248 1.0202 1.0086	. 180-1	182	182 250 236
185 135 150 202	219 122 191 192 149	114 102 157 134	113 196 192	1.0152 20.9 1.0282 1.0085 1.0011	1910	194	170 242 228
148 175 149 152 186	217 119 182 191 135	127 132 142 167 170	104 185 196	1.0153 21.0 21.0 1.0235 1.0094 1.0015 1	1,0159.1	210	168 242 231
179 171 163 151	200 101 159 162 155	114 132 118 172	118 198 195	1.0160 22.0 1.0244 1.0099 1.0022 1.002		rs.	158 252 224
1935 1936 1937 1938 1939	1940 1941 1942 1943	1945 1946 1947 1948	1950	Mean Density Salinity Max. Mean Mean Min.	1948	1949	1950 1951 1952

*Observations for the year are incomplete; extremes are for the months shown.

Table 1. Density of Sea Water - Continued Means and Extremes

ſ						*	* *			
	Min.			1.0107		1.0290*1.0040*	000 176 1955 1955	145 184 238		1.0040
	ĸ					90*1	300 297 293 301*	310 2310 231	2	
	Мах.			1.0315		1.02	B 00 00 00 0	1 6000		1,0510
	Means		1.0220				1.0256 248 251	255 264 271	1.0254	
	Ä		ř						-i	
	Dec.		1.0198 26.5	1.0242 1.0214 1.0182 1.0129		.0252	234 444 444	272 261 261 266	1.0257	1.0300 1.0273 1.0243 1.0223
						8 1	~∞ ○ 1 α	D 1041		
	Nov.		1.0216	1.0272 1.0236 1.0202 1.0165		1.0246 1.0247 1.0276 1.0266 1.0119 1.0215 1.0248 1.0252	267 238 270	275 264 264	1,0261	1.0310 1.0280 1.0245 1.0221
	Oct.					12	216 253 253	244 254 267		
			ä	1.0271 1.0233 1.0197 1.0153		1.02			+	1.0286 1.0268 1.0190
	Sept.	ROCKPORT, TEX Continued	1.0243 32.8	1.0315 1.0287 1.0192 1.0107		0119	274 272 263 273 273	271 260 275	1.0251	1.0299 1.0287 1.0200 1.0040
		ntir			Ä.				ri.	
	Aug.	22 -	.0272 36.6	1.0293 1.0293 1.0255 1.0186	F	0266	284 284 248 283 283	279 279 283	1.0275	1.0301 1.0288 1.0234 1.0089
		Ä.	4		BEI	1.				
	July	ľ, T	1.0207 1.0220 1.0253 1.0272 28.1 29.8 34.1 36.6	1.0303 1.0274 1.0221 1.0138	PORT ISABEL, TEX.	0276	284 278 282 274 268	275 281 282	1.0278	1.0293 1.0287 1.0264 1.0243
		OR.	4		RT	1.				
	June	CKP	0220	1.0272 1.0251 1.0193 1.0143	Ā	247	271 239 256 272 272 266	220 262 280	1.0257	1.0289 1.0277 1.0220 1.0145
		RO	7			H . (1,	
	May		28.1	1.0276 1.0226 1.0193		246	240 247 247	267 262 276	1.0253	1.0286 1.0270 1.0226
	~			4444		1.0			1.0	4444
	Apr.		.0207	.0265 .0229 .0191		.0254	248 257 245	246 264 266	.0251	.0275 .0265 .0234
	7		7	4444		1.0			7.0	
	Mar.		1.0199	1,0251 1,0216 1,0182 1,0145		i	1.0245 233 237 233	233 250 262	1.0242	1.0271 1.0254 1.0230
	2		1.0	4444			1.0		1.0	
	Feb.		0202	1.0271 1.0226 1.0191 1.0138		1	1.0230 239 236 235	241 258 263	0243 32.8	1.0274 1.0255 1.0216
	174		1.0215 1.0202 29.1 27.5				1.0		1.0243	0000
	Jan.		0215	1.0265 1.0228 1.0204 1.0144		1	.0244 243 234 252	242 267 254	1.0248	1.0278 1.0262 1.0231
	ŗ		1.0				0		1.0	1.0278 1.0262 1.0231 1.0210
	ar		1ty nity	lax.		1944	1945 1946 1947 1948	1950 1951 1952	1ty nity	fax.
	Year		Mean Density Salinity	Max. Wean Wax. Wean Win. Win.		٦			Mean Density Salinity	Max. Mean Max. Mean Min. Min.
L		L		- 2 2 3					2	3233

COATZACOALCOS (Puerto Mexico), MEXICO	.0065 1.0070 1.0018 006 0.9996 119 099 001 025 1.0027 163 150 094 081 009	143 074 005 000 003 142 110 012 006 0.9996 067 004 0.9995 0.9994 0.9994	.0116 1.0084 1.0021 1.0018 1.0005 16.2 12.0 3.8 3.4 1.7	1.0255 1.0268 1.0200 1.0174 1.0055 1.0229 1.0213 1.0066 1.0049 1.0018 1.0054 1.0024 1.0002 1.0000 0.9997 1.0015 0.9994 0.9991 0.9990 0.9989	PROGRESO, MEXICO	.0286 1.0285 1.0283 275 273 282 276 274 273 274 273 274 273 274 275 276 276 276 276 276 276 276 276 276 276	278 275 276 279 275 276 276 274 269 267 282 271 269 268 268	.0282 1.0277 1.0276 1.0275 1.0273 37.9 37.2 37.1 37.0 36.7	1.0294 1.0289 1.0287 1.0288 1.0280 1.0286 1.0282 1.0280 1.0279 1.0277 1.0277 1.0273 1.0272 1.0271 1.0268 1.0271 1.0267 1.0266 1.0266 1.0265
03	.0009 1.0018 1.0039 1.0070 1.0 009 013 037 092 014 037 052 135	006 028 048 070 035 028 100 104 020 060 099 094	.0016 1.0031 1.0062 1.0094 1.0	1.0109 1.0168 1.0237 1.0273 1.0 1.0064 1.0087 1.0170 1.0257 1.0 0.9996 1.0007 1.0021 1.0034 1.0 0.9991 1.0000 1.0006 1.0014 1.0		.0272 1.0275 1.0283 1.0289 1.0 270 275 279 282 269 268 266 282	277 277 279 281 280 280 281 279 282 285	.0274 1.0275 1.0278 1.0284 1.0 36.8 37.0 37.3 38.1 3	1.0286 1.0283 1.0291 1.0293 1.0 1.0278 1.0279 1.0283 1.0288 1.0 1.0269 1.0270 1.0274 1.0278 1.0
	1946 1947 1948 1949	1950 1951 1952	Mean Density 1.0 Salinity 3	Max. 1.0 Mean Max. 1.0 Mean Min. 0.9 Min.		1946 1947 1948 1949	1951	Mean Density 1.0 Salinity 3	Max. 1.03 Mean Max. 1.03 Mean Min. 1.05 Min. 1.05

*Observations for the year are incomplete; extremes are for the months shown.

Table 1. Density of Sea Water - Continued Means and Extremes

	Min.		.0142*	134 216* 050*		1.0050		.0224*	222* 225* 174*		.0220* 112	088 136* 125*
	Max.		1.0264*1.0142*	271 272* 264*		1.0272		1.0266*1.0224*	269* 270* 275*		1,0275*1	271 273* 273*
	Means		i	1.0224	1.0223			1			1.0249	23.38
	Dec.		1.0228	209	1.0205	1.0261 1.0251 1.0128 1.0066		1.0246	238		1.0253	208
	Nov.		1.0219	184	1.0199	1.0264 1.0245 1.0124 1.0092		1.0244	223		1,0239	223
	Oct.		1.0222 1.0219	174	1.0177	1.0253 1.0230 1.0115 1.0050		1,0256	249 248 243		1.0258	255
	Sept.	DURAS	1 1	1.0204	1.0192	1.0235 1.0232 1.0140 1.0139	RAGUA	1	1.0251 246 250	RICA	1.0259	258
Extreme	Aug.	S, HON	1	1.0196	1.0194	1,0264 1,0254 1,0138	S, NICA	•	1.0214	COST	1.0256	236 255 262
Means and Extremes	July	CORTÉ	ì	1.0220	1.0212	1,0262 1,0260 1,0119 1,0104	CABEZA	1	2 8 8 8 8 8	LIMÓN	1.0253	520
TAT	June	PUERTO CORTÉS, HONDURAS	3 8	1.0240	1.0238	1.0267 1.0264 1.0142 1.0128	PUERTO CABEZAS, NICARAGUA	8		PUERTO LIMÓN, COSTA RICA	1.0246	244 250 267
	May	<u>a</u> .	i 3 8	1.0264	1,0256 34.5	1.0270 1.0267 1.0240 1.0227	J.	1	1.0261 264 265	<u>α</u> .	1.0250	205
	Apr.		!	1,0257 258 253	1.0256 34.5	1,0271 1,0267 1,0225 1,0216		6 3 1	1.0262 263 266		.0264	262
	Mar.		į	1.0254	1.0256 34.5	1.0270 1.0267 1.0240 1.0236		1	1.0256		1.0266 1	255
	Feb.		8	1,0235	1.0244	1,0272 1,0266 1,0212 1,0200		8 8	1.0249		1.0264	237
	Jan.		8 8	1,0236	1.0242	1.0269 1.0267 1.0195 1.0172		1	1.0243		1.0249	255
	Year		1949	1950 1951 1952	Mean Density Salinity	Mex. Mean Max. Mean Min. Min.		1949	1950 1951 1952		1948	1950

	1.0088		1.0131*	153* 167* 173*		1.0131		1.0185* 225 190	137	104
	1.0275		1.0245*1.0131*	246 * 234 * 253*		1.0253		1.0269*1.0185* 303 225 279 190	272	# pp 2
1,0246			1 1	8 3 8 8 8 8	1.0212 28.6			1.0259	254 254	107
1.0219	1.0275 1.0260 1.0146 1.0088		1,0187	202	1.0196	1.0229 1.0222 1.0158 1.0135		1.0254 257 258	256	002
1.0234 31.6	1.0273 1.0263 1.0150		1.0190	192 208 210	1.0200	1.0237 1.0232 1.0158 1.0131		1,0252 255 257	240 261	707
1.0256 34.5	1.0271 1.0270 1.0195 1.0130		1.0223	237	1,0231	1.0245 1.0245 1.0200		1,0233 272 253	229 245	022
1.0259 34.9	1.0275 1.0272 1.0249	ZONE	1.0216	230	1.0223	1.0253 1.0249 1.0195 1.0186		1,0243 262 258	242 254 254	103
1.0252	1.0273 1.0266 1.0209 1.0128		1,0206	201 204 210	1.0205	1.0241 1.0230 1.0177 1.0159	CUBA	1.0260 258 256	250 246	200
1.0236	1.0268 1.0262 1.0172	CRISTOBAL, CANAL	5 9 3	1.0200	1.0208	1.0236 1.0224 1.0178	HABANA, CUBA	1,0252 261 255	261 242 264	H 0
1.0252	1.0273 1.0267 1.0216 1.0181	CRIST	8	1,0226 214 230	1.0223	1.0248 1.0241 1.0200		1,0255 261 252	262	3
1.0237	1.0274 1.0272 1.0172 1.0090		es car	1,0211	1.0212	1.0231 1.0228 1.0184 1.0179		1.0257 254 264	258	3
1,0262	1,0274 1,0272 1,0215		8	1.0207 212 217	1.0212	1.0238 1.0226 1.0189		1,0255 255 258	260 250 250	2
1.0255	1.0274 1.0268 1.0207 1.0156			1.0203 209 224	1,0212	1.0240 1.0226 1.0191 1.0174		1,0254 260 262	261	
1.0247	1.0272 1.0267 1.0172 1.0102		8 8	1.0204	1.0213	1.0233 1.0222 1.0200 1.0191		1.0258	260 256 260	2
1.0242	1.0270 1.0262 1.0158		8 8	1.0212	1.0213	1.0229 1.0229 1.0196		1,0250	264 255 267	2
Mean Density Salinity	Max. Mean Max. Mean Min. Min.		1949	1950	Mean Density Salinity	Max. Mean Max. Mean Min. Min.		1947	1950	

*Observations for the year are incomplete; extremes are for the months shown.

Table 1. Density of Sea Water - Continued
Means and Extremes

	Min.			1.0137		*7500*	273*0.9993* 273*1.0154* 293* 011*		.0203* 112 205	233 252 245		1.0112
	Max.			1,0303		1.0282*1.0037*	273*0 273*1 293*		1.0280*1.0203* 282 112 283 205	285 291 291		1.0291
	Means		1.0256			1	4		1.0265	270 275 277	1.0272	
	Dec.		1.0256	1.0272 1.0270 1.0233 1.0187		1,0235	248 254 250		1.0270 266 266	264 274 277	1.0270	1.0280 1.0276 1.0263
	Nov.		1.0254	1.0281 1.0269 1.0222 1.0151		1,0229	202 231 234		1.0271 265 268	250 275 276	1.0268	1.0282 1.0276 1.0258
	Oct.		1,0243	1.0363 1.0269 1.0187 1.0140		!	1,0236 251 245		1.0262 260 255	258 274 278	35.5	1.0285 1.0276 1.0244 1.0205
	Sept.	inued	1.0253	1.0287 1.0270 1.0210		;	1.0243	CUBA	1.0260 266 274	269 277 274	1.0270	1.0288 1.0280 1.0252
CONTRACTOR TOWNS	Aug.	HABANA, CUBA - Continued	1.0254	1.0277 1.0270 1.0214 1.0163	CUBA	1 1	1.0260 1.0264 1.0262 1.0243	BAY, CUBA	1.0273 274 277	277 277 278	1.0276	1.0285 1.0282 1.0270
Correspond	July	A, CUB/	1.0256 34.5	1.0283 1.0273 1.0223 1.0168	GIBARA, CUBA	1 1	1.0264	GUANTÁNAMO	1.0269 271 274	277 278 275	1.0274	1.0283 1.0279 1.0266 1.0261
	June	HABAN	1.0259	1.0281 1.0272 1.0240	U	1 1	1.0260	GUAN	1.0268 1.0269 219 271 272 274	279 274 271	1.0264 1.0274 35.5 36.8	1.0283 1.0276 1.0242 1.0112
	May		1.0257	1.0276 1.0271 1.0219		1 1			1,0270 270 275	278 273 276	1.0274	1,0291 1,0283 1,0261 1,0241
	Apr.		1.0258 34.8	1.0284 1.0270 1.0227 1.0175		1.0275			1.0277	276 281 280	1.0278	1.0291 1.0284 1.0266 1.0245
	Mar.		1.0260 35.0	1.0279 1.0273 1.0240		1	1.0262		1.0274	275 276 281	1.0276	1.0286 1.0280 1.0271 1.0268
	Feb.		1.0259 34.9	1.0278 1.0272 1.0236		1	1,0251		1.0272	273 273 280	1.0273	1.0284 1.0279 1.0269
	Jan.		1,0259	1.0278 1.0273 1.0238		8	1.0236 259 260		1.0271	269 269 276	1.0271	1.0282 1.0277 1.0265 1.0261
	Year		Mean Density Salinity	Max. Mean Max. Mean Min. Min.		1949	1950 1951 1952		1947 1948 1949	1950 1951 1952	Mean Density Salinity	Max. Mean Max. Mean Min. Min.

	* * * *				*	*				*	
	1.0242* 243* 107* 173*		1.0107		1,0261	257* 262 237		1,0237		1,0080	125
	1,0290*1,0242* 301* 243* 299* 107* 287* 173*		1.0301		1.0274*1.0261*	275* 275 276		1.0276		1,0268*1,0080*	273
		1.0278			- 14 24 24	1.0268	1.0269			8	1.0244
	1.0286 279 279 279	1.0281	1.0289 1.0287 1.0275		1,0264	265 268 270	1,0267	1.0273 1.0269 1.0265		1.0253	135
	1.0280 263 265 265	1.0269	1.0290 1.0278 1.0256		1.0264 1.0264	265 266 269	1,0266	1.0272 1.0270 1.0262 1.0257		1.0237	245 149
	1.0268 216 259	1.0248	1.0295 1.0283 1.0179		1.0268	270 268 270	1,0269 36.2	1.0273 1.0272 1.0264	UBLIC	1,0213	227 140
	1.0259 282 282 265	1.0269	1.0288 1.0276 1.0257	HAITI	1.0269	270 269 268	1,0269	1.0274 1.0273 1.0258	AN REB	1,0203	237
, cuba	1,0273 291 287 266	1.0279	1.0295 1.0285 1.0268		8	1,0270 268 270	1,0269	1.0274 1.0272 1.0266	OMINIC.	1,0233	243 126
	1.0272 290 284 268	1.0278	1.0296 1.0287 1.0272 1.0260	PORT-AU-PRINCE,	1.0270	271 271 271	1.0271	1.0276 1.0274 1.0268	LO, DC	1,0241	247
Ö	1.0293 290 278	1.0287	1.0301 1.0294 1.0275	PORT.	1.0271	272 270 271	1.0271	1.0275 1.0274 1.0267	TRUJII	1,0249	242 099
	1.0283 291 288 281	1.0286	1.0298 1.0292 1.0279		1.0270	271 268 268	1.0269	1.0273 1.0272 1.0266	CIUDAD TRUJILLO, DOMINICAN REBUBLIC	1.0240	239
	1.0285	1.0286	1.0294 1.0292 1.0276		8	1.0269	1.0269	1.0274 1.0274 1.0267	O	1,0258	247
	1.0285	1.0286	1,0292 1,0292 1,0282		\$ 8	1,0269 269 270	1.0269	1.0276 1.0272 1.0267		1	1,0253
	1.0284	1.0284	1.0299 1.0294 1.0280		8	1,0268 269 271	1.0269	1.0274 1.0272 1.0267 1.0265		8	1.0246 220 208
	1.0284	1.0283	1.0268 1.0288 1.0272			1.0266 267 269	1.0267	1.0272 1.0270 1.0266 1.0265		1. 3. 9	1.0256
	1949 1950 1951 1952				1949	1950 1951 1952				1949	1950

*Observations for the year are incomplete; extremes are for the months shown.

Table 1. Density of Sea Water - Continued Means and Extremes

Feb. Mar. Apr. May		Apr. May	May		June	July	July Aug.	Sept.	0 oct.	Nov.	Dec.	Means	Max.	Min.
			CIUDA	D TRUJ	IILLO, I	CIUDAD TRUJILLO, DOMINICAN REPUBLIC- Continued	CAN RE	PUBLIC	- Conti	nued				
1,0238 1,02 32,1 3(0225	1.0225 1.0226 30.4 30.6	1.0213	1.0176	1.0185	1.0183 1.0165 3 25.6	1.0186 1.0169 25.4 23.1		1.0174	1.0202	1.0212	1.0197		,
1,0266 1,0264 1,0255 1,0258 1,0212 1,0154 1,0130 1,0134	264 258 154	1.0266 1.0254 1.0182 1.0161	1.0266 1.0252 1.0156 1.0038	1.0268 1.0248 1.0109	1.0266 1.0230 1.0113	1.0269 1.0220 1.0100	1,0273 1,0257 1,0244 1,0225 1,0102 1,0087 1,0035 1,0020	1.0257 1.0225 1.0087 1.0020	1.0257 1.0229 1.0077 1.0030	1.0270 1.0249 1.0111	1.0262 1.0245 1.0153		1.0273	1.0020
				PUERT	ro PLAT	PUERTO PLATA, DOMINICAN	INICAN	I REPUBLIC	3LIC					
	\$ 1 1	8 8	1	1.0271	1.0271	1.0271 1.0271 1.0272 1.0273 1.0270 1.0270 1.0270 1.0266	1.0273	1.0270	1.0270	1,0270	1.0266		1.0280*1.0252*	0252*
260 1.0 260 262	1.0260 1.0250 260 263 262	1.0261	1.0266	260	267 266 268	268 268 269	269 269 270	269 270 269	269	266 265 267	253 260 262	1.0264 266	274 274 273*	222 219 234*
1,0261 1,0 35,1	0256	1.0256 1.0264 34.5 35.5	1.0266 35.8	1.0266	1.0268	1.0269	1.0270 3	1.0270	1.0270	1,0267	1.0260 1.0266 35.0 35.8	1.0266 35.8		
1.0269 1. 1.0269 1. 1.0241 1.	1.0268 1.0266 1.0244 1.0232	1,0271 1,0269 1,0258	1.0273 1.0271 1.0256	1.0271 1.0271 1.0248	1,0280 1,0273 1,0260 1,0252	1.0276 1.0273 1.0265	1,0276 1,0273 1,0264 1,0259	1,0280 1,0275 1,0265 1,0265	1,0274 1,0273 1,0266 1,0263	1.0274 1.0272 1.0246 1.0219	1,0272 1,0269 1,0240 1,0222		1.0280	1.0219
				S	T. LUC	ST. LUCIA (Vieux Fort), B.W.I.	x Fort),	B.W.I.						
1.0265 1. 267 275	0264 268 269	1,0264 1,0261 268 266 269 269	1.0264 269 273	1.0265 271 266	1.0259 266 263	1,0259 1,0251 1,0247 266 268 261 263 256 261	1.0247] 261 261	1.0247 1.0258 259 265 249 256	1.0258 265 256	1.0260 1.0262 267 267 262 264	1.0262 267 264	1.0259 266 264	1.0259 .0270 .0231 266 281 245 264 288 173	.0231 245 173

	1,0173		8	278* 247* 262*1.0089*		1.0089		.0217*	200* 196* 171		1,0171
	1.0288		1,0231*	278* 247* 262*1		1.0275		1,0268*1,0217* 278 203	274* 271* 277		1.0278
1.0263			1	9 F B 9 F B B B B B B B B B B B B B B B	1.0203 27.6			1.0255	238	1.0246	
1.0264	1.0278 1.0275 1.0257		1,0188	206	1.0197	1.0231 1.0224 1.0176		1,0255	253	1.0247	1,0276 1,0265 1,0225 1,0204
1,0263	1.0272 1.0270 1.0252		1,0187	203	1,0191	1.0220 1.0210 1.0171		1,0228 1,0255 232 261	213	1.0226 30.6	1.0259 1.0243 1.0213 1.0204
1.0260 1.0263 35.0 35.4	1.0274 1.0269 1.0239		1,0169	168 161 190	1.0172	1.0214 1.0201 1.0142		1.0236	208	1.0218	1,0246 1,0233 1,0208
1.0252	1.0264 1.0261 1.0221 1.0173	y), B.W.	1.0156 1.0169	161 130 164	1.0153	1.0200 1.0187 1.0119	ABIA	1.0236	220	1.0222	1,0258 1,0240 1,0200
1.0256	1.0272 1.0264 1.0244	(Carenage Bay), B.W	1.0139	131 146 153	1.0142	1.0185 1.0172 1.0102 1.0089	COLOMBIA	1.0253	247	1.0238	1.0268 1.0255 1.0208
1.0258	1.0281 1.0267 1.0248	Care	1.0187	166 169 197	1.0180	1.0217 1.0199 1.0162 1.0151	CARTAGENA,	1.0250	234	1.0237	1,0261 1,0254 1,0223 1,0205
1.0263	1.0274 1.0271 1.0252 1.0246	TRINIDAD	8	1.0208 210 224	1.0214	1.0246 1.0239 1.0192	CART	1.0255	235 235 218	1.0236	1,0266 1,0252 1,0216
1.0267	1.0277 1.0274 1.0261	 	8	1.0254	1.0253	1.0264 1.0262 1.0234 1.0229		1,0269	240	1.0253	1,0278 1,0274 1,0230
1,0269	1.0279 1.0273 1.0262		8	1.0253	1.0255	1.0278 1.0270 1.0244 1.0240		1.0274	265	1.0270	1,0277 1,0275 1,0261 1,0255
1.0265	1,0281 1,0272 1,0256		8 8	1.0232 230 250	1.0237	1.0254 1.0245 1.0224		1.0272	266	1.0269	1.0275 1.0273 1.0266
1.0267	1,0272 1,0261 1,0260		5	1,0204 219 240	1.0221	1.0248 1.0234 1.0211		1.0270	270	1.0268	1.0274 1.0272 1.0261 1.0252
1,0269	1.0288 1.0276 1.0264		8	1.0217	1.0224 1.0221 30.3	1.0247 1.0238 1.0208 1.0196		1.0267 1	264	1.0262	1.0272 1.0271 1.0253 1.0238
Mean Density Salinity	Mean Max. Mean Min. Min.		1949	1950 1951 1952	Mean Density Salinity	Mex. Mesn Mex. Mesn Min. Min.		1948	1950 1951 1952	Mean Density Salinity	Mean Max. Mean Min. Min.

*Observations for the year are incomplete; extremes are for the months shown.

Table 1. Density of Sea Water - Continued Means and Extremes

	Min.		1.0285*1.0262*	256 225 229		1.0225		1.0123*	139 148* 249		1.0123
	Мах.		1.0285*	289 293 287		1.0293		1,0279*1,0123*	284 280* 287		1.0287
	Means		1	1.0274 271 272	1.0272			1	1.0232	1.0249	
	Dec.		1,0269	266 272 273	1.0270	1.0278 1.0276 1.0264 1.0256		1,0212	217 260 262	1.0238	1.0274 1.0263 1.0207 1.0123
	Nov.		1.0269	272 268 268	1.0269	1.0281 1.0278 1.0254 1.0229		1,0258	264 261 264	1.0262	1.0276 1.0270 1.0247 1.0225
	Oct.		1.0272	276 272 270	1.0272	1,0287 1,0280 1,0262 1,0256		1,0265 1,0258 1,0212	262 264 268	1,0265	1.0284 1.0276 1.0249 1.0233
	Sept.	JELA	1,0276	273 270 269	1.0272	1,0285 1,0280 1,0264 1,0261	JELA	i i	1.0257 263 271	1,0264 35,5	1.0281 1.0272 1.0252 1.0255
Extreme	Aug.	VENEZL	1	1,0275 270 274	1.0273	1.0284 1.0279 1.0266	VENEZI	1	1.0248 262 268	34.9	1.0280 1.0275 1.0244 1.0217
Means and extremes	July	LA GUAIRA, VENEZUELA	8	1.0275	1.0273	1.0281 1.0279 1.0264 1.0260	CARENERO, VENEZUELA	1 8 8	1,0214 254 270	1.0248 33.2	1.0278 1.0267 1.0211 1.0159
IM	June	LA GI	3 8	1,0272 272 274	1.0275	1,0280 1,0279 1,0265	CARE	1 1	1,0222 260 271	1,0251	1.0278 1.0272 1.0218
	May		8	1.0273 272 273	1,0273	1,0287 1,0282 1,0264 1,0262		8 8	1.0255 268 260	1.0261	1,0274 1,0273 1,0248 1,0232
	Apr.		1 1	1.0278 272 273	1.0274 35.5	1,0289 1,0282 1,0266		8	1,0248 266 279	35.5	1.0287 1.0277 1.0243 1.0219
	Mar.		9 9	1.0277 270 272	1.0273	1,0283 1,0278 1,0268 1,0264		8 8	1.0137 223 265	1.0225 30.4	1.0281 1.0266 1.0189
	Feb.		8	1.0276	1.0273	1.0293 1.0284 1.0253		? # #	1,0210 196 258	1,0221.	
	Jan.		3 8	1.0274 273 275	1.0274	1.0281 1.0280 1.0267		1	1.0200 1.0210 1 196 259 256	1.0230 1.0221 1.0225 1 31.1 29.9 30.4	1.0264 1.0262 1.0198 1.0148
	Year		1949	1950 1951 1952	Mean Density Salinity	Mex. Mean Mex. Mean Min. Min.		1949	1950 1951 1952	Mean Density Salinity	Mex. Mean Max. Mean Min.

	1,0285*1,0188*	271 289 169 264 295 152 265 282 176	0267 35,9	1.0295		1.0275*1.0230*	269 277 255 269 278 237 273 281 260	5.	1.0281		1.0006*0.9995* 002 1.0015 0.9996 1.0004*0.9994*
		1.0	j	.			1.0	1.0270	0.10.00		1,0
	1.0273	275 264 274	1.0272	1.0287 1.0283 1.0246		1.0265	267 273 274	1.0270	1,0275 1,0275 1,0258 1,0250		1.0001
	1.0271	266 267 269	1.0268	1.0284 1.0280 1.0214 1.0201		1.0272	266 273 272	1.0271	1.0278 1.0274 1.0268		1.0001
	1,0261	267 264 258	1.0262	1.0283 1.0278 1.0206 1.0176		1.0271	267 271 270	1.0270	1.0277 1.0274 1.0263 1.0254		1.0002
ELA	1.0259	269 253 249	1.0258	1.0279 1.0276 1.0197	JELA	8 8	1.0268 269 272	1,0270 1,0270 36.3 36.3	1.0275 1.0273 1.0267		1,0003
CUMANÁ, VENEZUELA	! !	1.0257 248 254	1.0253	1.0291 1.0283 1.0166	CARÚPANO, VENEZUELA	•	1.0267 267 268	1.0267	1.0272 1.0271 1.0263 1.0260	BRAZIL	1.0005
IANÁ, V	1	1,0281 262 259	1.0267	1.0277 1.0276 1.0223 1.0194	PANO,	i	1.0268 267 275	1.0270	1,0280 1,0273 1,0266 1,0264	BELÉM,	0.9999 1.0002 1.0001
CUM	1 1	1,0269 268 272		1.0281 1.0277 1.0225 1.0163	CARÚ	1	1.0267 265 273	1.0268 36.0	1.0281 1.0274 1.0254 1.0237	<u>m</u>	0.9999 1.0003 1.0000
	8	1.0269 275 264	1.0269 1.0270 36.2 36.3	1.0284 1.0280 1.0253		1	1.0270 266 276	1.0271	1.0281 1.0275 1.0265 1.0259		0.9998
	į	1.0273 264 266	1.0268	1.0295 1.0286 1.0227 1.0174		1	1.0272 268 273	1.0271	1.0279 1.0275 1.0266 1.0264		6666 0
	į	1,0275 274 271	1.0273	1.0286 1.0283 1.0242 1.0210		1	1.0272 269 276	1.0272			1,0001 0,9999 0,9999
	!	1.0279 262 273		1.0289 1.0284 1.0240 1.0182		!	1.0273 270 274	1.0272			1.0001
	1	1.0275 272 274	1.0274 1.0271 36.8 36.4	1.0288 1.0283 1.0258		:	1.0273 269 272	1.0271	1.0276 1.0277 1.0275 1.0276 1.0260 1.0269 1.0255 1.0266		1950 1.0002 1951 1.0001 1952 1.0000
	1949	1950	Mean Density Salinity	Max. Mean Max. Mean Min. Min.		1949	1950 1951 1952	Mean Density Salinity	Mean Max. Mean Min. Min.		1950 1951 1952

*Observations for the year are incomplete; extremes are for the months shown.

Table 1. Density of Sea Water - Continued Means and Extremes

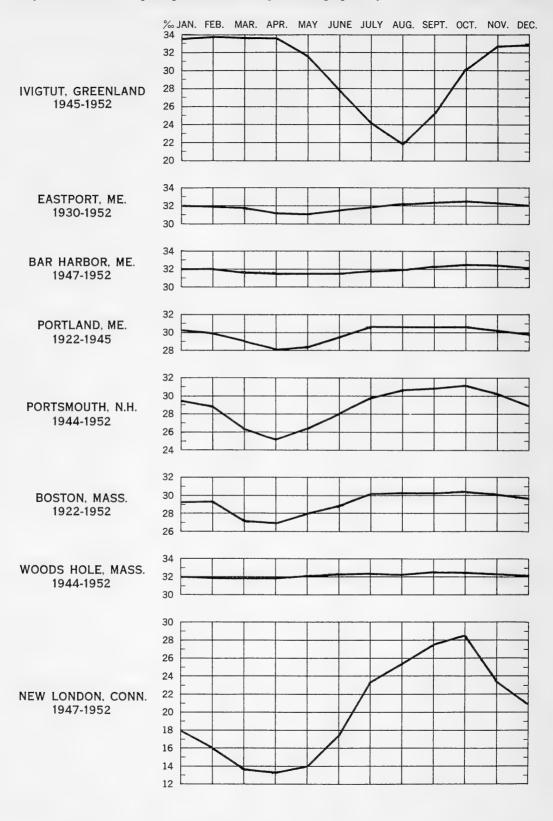
	Min.		1 1	.0145* 207*		.0275* 266		.0134*	144* 123*		.0249*	248* 246* 252*		1.0246
	Max.		1 1	1.0294*1		1.0299*1.0275* 303 266		1.0284*1.0134*	280* 292* 284		1.0270*1.0249*	274* 288* 286*		1.0288
-	Means		1 1	1 1		1.0284		8	1.0252		1	1 1 1	1.0268	
	Dec.		1.0272	286		1.0284		1.0242	265 253 273		1,0260	27.1	1.0266	1.0280 1.0274 1.0250 1.0249
	Nov.		1.0267	289		1.0283		1.0264 1.0242	266 260 271		1.0267	268 276 278	1.0272	1.0282 1.0276 1.0268
	Oct.		1 1	1.0282		1.0283		1,0258	255 256 262		1,0265	267 274 278	1.0271	1.0280 1.0274 1.0267 1.0259
70	Sept.	ZIL	! !	1.0275	FORTALEZA (Mucuripe), BRAZIL	1.0279 1.0283 281 283		9	1.0220 248 252		\$ 3 8	1.0263 270 270	1.0268	1,0277 1,0273 1,0262 1,0261
Means and Extremes	Aug.	SALINÓPOLIS, BRAZIL	: :	1.0264	curipe),	1.0281	BRAZIL	1	1,0220 230 235	, BRAZIL	1	1,0260 266 267	1.0264 35.5	1,0273 1,0269 1,0260
eans and	July	NÓPOLI	! !	1 1	ZA (Mu	1.0282	RECIFE,	1 1	1,0228 197 234	SALVADOR,	3 3	1,0256 260 266	1.0261	1.0271 1.0265 1.0252 1.0246
Z	June	SALI	1 1	1.0207	RTALE	.0284	~	1	1,0244	SAL	•	1,0257 260 261	1.0259 34.9	1.0270 1.0267 1.0253 1.0249
	May		1 1	t 1 3 1 1 t	Ä	1.0283 1		1 1	1,0229		n i	1.0257	1.0260	1.0276 1.0273 1.0252 1.0248
	Apr.			f 1 f 1 i i		1.0284		1	1,0269		8 8	1.0268 273 273	1.0273	1.0284 1.0279 1.0262 1.0252
	Mar.			1.0210		1,0287		1	1,0260 276 238		8	1,0269 280 279	1.0276	1,0288 1,0281 1,0272 1,0266
	Feb.		1 1	1.0270		1.0286		1	1.0272 260 268		1	1.0270 277 280	1.0276	1,0286 1,0281 1,0272 1,0266
	Jan.		7 190	4		1,0285		1	1.0266 269 264		1	1.0269	1.0274	1.0284 1.0278 1.0271 1.0266
	Year		1949	1951		1951		1949	1950 1951 1952		1949	1950 1951 1952	Mean Density Salinity	Max. Mean Wax. Mean Min. Win.

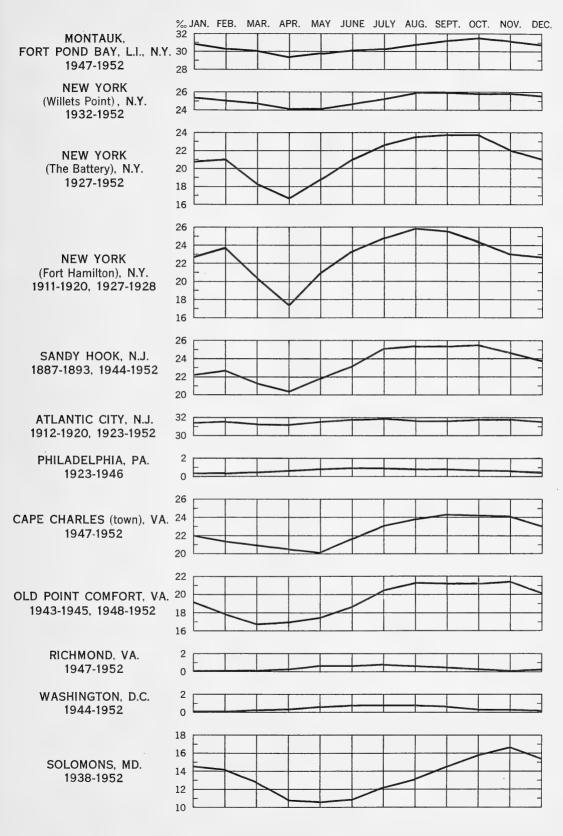
*0666*0	.0228*	122 178 175		1.0122		*6520*	222 243 232		1,0222
1.0241*0.9990*	1.0270*1.0228*	269 270 266		1,0270		1.0270*1.0259*	273 271 271		1.0273
0 8 8	1	1.0235 244 243	1,0241			1	1.0261	1.0259	
1.0035	1,0243	234 259 233	1.0242	1.0265 1.0258 1.0219		1.0266	264 264 262	1.0264	1,0269 1,0268 1,0259 1,0254
1.0126	ZIL 1.0249	253 261 239	1.0250	1.0265 1.0262 1.0241 1.0228		1,0265	266 260 255	1.0262	1.0269 1.0268 1.0254 1.0242
1.0120	Cruz), BRAZIL	260 261 252	1.0259	1.0270 1.0266 1.0248		1.0265	259 248 243	1.0254 34.2	1.0270 1.0266 1.0244 1.0233
ZIL 1.0108 1.0120 1.0126		1.0262 259 254	1.0258	1.0269 1.0264 1.0250 1.0247		0	1.0255 262 243	1.0253	1.0267 1.0265 1.0244 1.0236
.S. BRA	a de Sa	1.0256 260 259	1.0258 34.8	1.0268 1.0266 1.0250 1.0244	BRAZIL	8	1.0243 265 253	1.0254	1.0269 1.0267 1.0242 1.0222
CANAVIEIRAS, BRAZIL	ortaleza	1,0254 261 255	1.0257	1.0270 1.0266 1.0242 1.0240	MBITUBA,	8	1.0260 258 244	1.0254	1.0268 1.0263 1.0244 1.0232
	JANEIRO (Fortaleza de Santa	1,0250 250 255	1.0252 34.0	1.0270 1.0264 1.0236	E	8	1,0264 264 252	1.0260 35.0	1.0271 1.0270 1.0251
1.0080 1	DE JAN	1,0226 218 245	1,0230	1.0257 1.0255 1.0203 1.0178		8	1.0265 257 255	1.0259	1,0273 1,0269 1,0252 1,0247
1.0095	RIO	1.0195 212 237	1.0215	1.0253 1.0249 1.0195		8	1,0267 251 266	1.0261	1.0270 1.0266 1.0257 1.0247
1.0105		1.0222 222 206	1.0217	1.0252 1.0248 1.0186		8	1.0262 268 266	1.0265	1,0270 1,0269 1,0256 1,0248
1.0162	1	1.0181 235 229	1,0215	1.0265 1.0246 1.0181 1.0145		6 8 8	1.0265 263 266	1.0265	1.0270 1.0269 1.0260 1.0258
\$ 8 8	3 8 8	1.0227 230 250	1,0236	1.0265 1.0261 1.0184 1.0122		8 8	1,0262 262 263	1.0262	1.0267 1.0267 1.0257 1.0256
1952	1949	1950 1951 1952	Mean Density Salinity	Max. Mean Max. Mean Min. Min.		1949	1950 1951 1952	Mean Density Salinity	Max. Mean Max. Mean Min. Min.

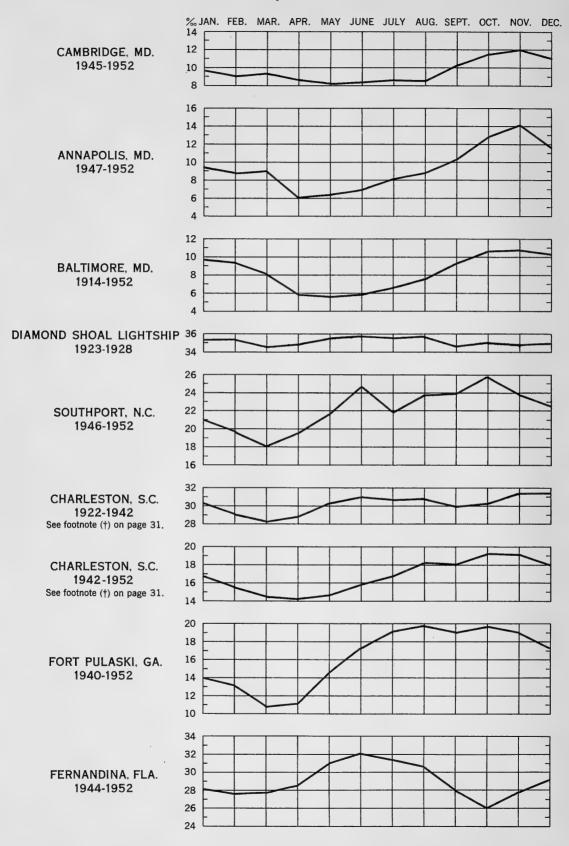
*Observations for the year are incomplete; extremes are for the months shown.

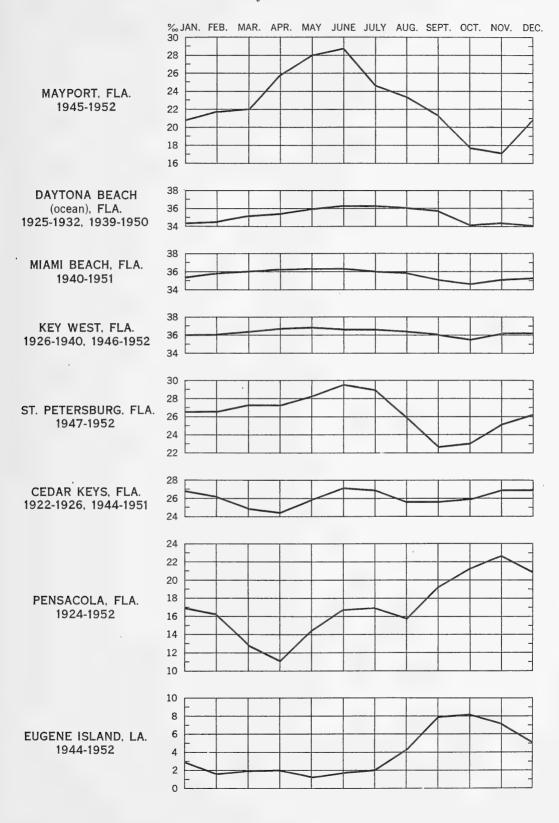
Mean Salinity Curves

Monthly mean salinities in parts per thousand are presented graphically to show the seasonal variation.









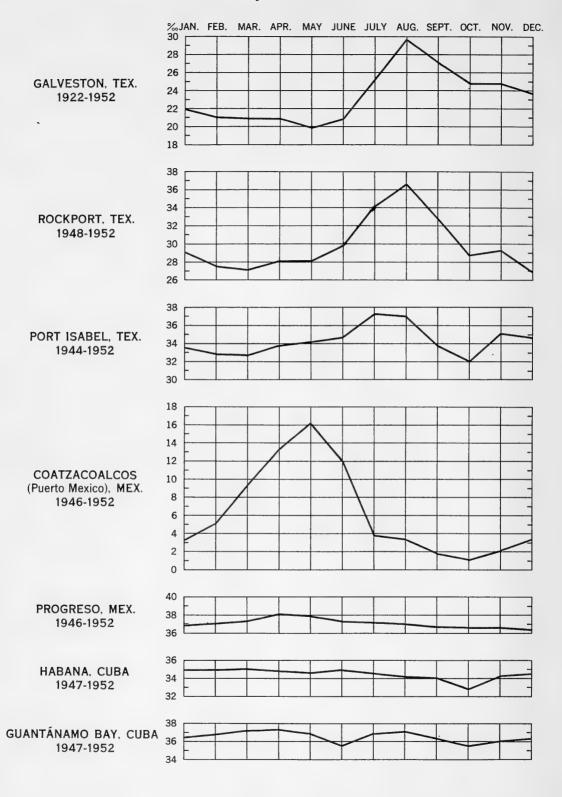


Table 2. Corresponding Densities and Salinities (Density at 15°C. -- Salinity in parts per 1000)

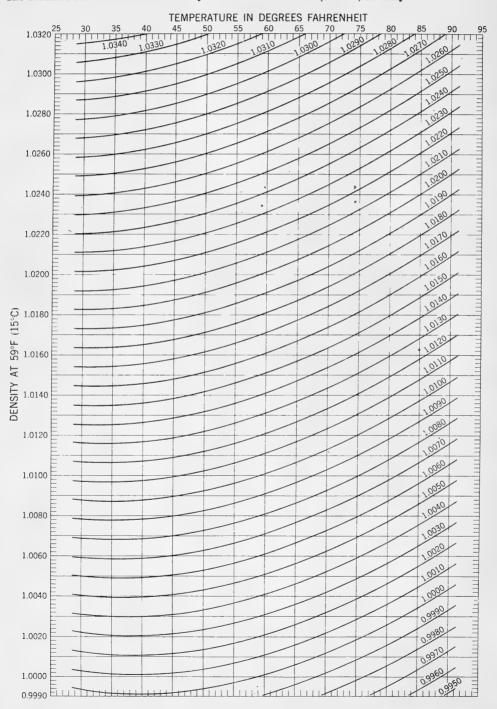
Den-	Sal-		Sal-	Den-	Sal-	Den-	Sal-	Den-	Sal-	Den-	Sal-
sity	inity		inity	sity	inity	sity	inity	sity	inity	sity	inity
0.9991	0.0	1.0046	7.1	1.0101	14.2	1.0156	21.4	1.0211	28.6	1.0266	35.8
0.9992	0.0	1.0047	7.2	1.0102	14.4	1.0157	21.6	1.0212	28.8	1.0267	35.9
0.9993	0.2	1.0048	7.3	1.0103	14.5	1.0158	21.7	1.0213	28.9	1.0268	36.0
0.9994	0.3	1.0049	7.5	1.0104	14.6	1.0159	21.8	1.0214	29.0	1.0269	36.2
0.9995	0.4	1.0050	7.6	1.0105	14.8	1.0160	22.0	1.0215	29.1	1.0270	36.3
0.9996	0.6	1.0051	7.7	1.0106	14.9	1.0161	22.1	1.0216	29.3	1.0271	36.4
0.9997	0.7	1.0052	7.9	1.0107	15.0	1.0162	22.2	1.0217	29.4	1.0272	36.6
0.9998	0.8	1.0053	8.0	1.0108	15.2	1.0163	22.4	1.0218	29.5	1.0273	36.7
0.9999	0.9	1.0054	8.1	1.0109	15.3	1.0164	22.5	1.0219	29.7	1.0274	36.8
1.0000	1.1	1.0055	8.2	1.0110	15.4	1.0165	22.6	1.0220	29.8	1.0275	37.0
1.0001	1.2	1.0056	8.4	1.0111	15.6	1.0166	22.7	1.0221	29.9	1.0276	37.1
1.0002	1.3	1.0057	8.5	1.0112	15.7	1.0167	22.9	1.0222	30.1	1.0277	37.2
1.0003	1.5	1.0058	8.6	1.0113	15.8	1.0168	23.0	1.0223	30.2	1.0278	37.3
1.0004	1.6	1.0059	8.8	1.0114	16.0	1.0169	23.1	1.0224	30.3	1.0279	37.5
1.0005	1.7	1.0060	8.9	1.0115	16.1	1.0170	23.3	1.0225	30.4	1.0280	37.6
1.0006	1.9	1.0061	9.0	1.0116	16.2	1.0171	23.4	1.0226	30.6	1.0281	37.7
1.0007	2.0	1.0062	9.2	1.0117	16.3	1.0172	23.5	1.0227	30.7	1.0282	37.9
1.0008	2.1	1.0063	9.3	1.0118	16.5	1.0173	23.7	1.0228	30.8	1.0283	38.0
1.0009	2.2	1.0064	9.4	1.0119	16.6	1.0174	23.8	1.0229	31.0	1.0284	38.1
1.0010	2.4	1.0065	9.6	1.0120	16.7	1.0175	23.9	1.0230	31.1	1.0285	38.2
1.0011	2.5	1.0066	9.7	1.0121	16.9	1.0176	24.1	1.0231	31.2	1.0286	38.4
1.0012	2.6	1.0067	9.8	1.0122	17.0	1.0177	24.2	1.0232	31.4	1.0287	38.5
1.0013	2.8	1.0068	9.9	1.0123	17.1	1.0178	24.3	1.0233	31.5	1.0288	38.6
1.0014	2.9	1.0069	10.1	1.0124	17.3	1.0179	24.4	1.0234	31.6	1.0289	38.8
1.0015	3.0	1.0070	10.2	1.0125	17.4	1.0180	24.6	1.0235	31.8	1.0290	38.9
1.0016	3.2	1.0071	10.3	1.0126	17.5	1.0181	24.7	1.0236	31.9	1.0291	39.0
1.0017	3.3	1.0072	10.5	1.0127	17.7	1.0182	24.8	1.0237	32.0	1.0292	39.2
1.0018	3.4	1.0073	10.6	1.0128	17.8	1.0183	25.0	1.0238	32.1	1.0293	39.3
1.0019	3.5	1.0074	10.7	1.0129	17.9	1.0184	25.1	1.0239	32.3	1.0294	39.4
1.0020	3.7	1.0075	10.8	1.0130	18.0	1.0185	25.2	1.0240	32.4	1.0295	39.6
1.0021	3.8	1.0076	11.0	1.0131	18.2	1.0186	25.4	1.0241	32.5	1.0296	39.7
1.0022	3.9	1.0077	11.1	1.0132	18.3	1.0187	25.5	1.0242	32.7	1.0297	39.8
1.0023	4.1	1.0078	11.2	1.0133	18.4	1.0188	25.6	1.0243	32.8	1.0298	39.9
1.0024	4.2	1.0079	11.4	1.0134	18.6	1.0189	25.8	1.0244	32.9	1.0299	40.1
1.0025	4.3	1.0080	11.5	1.0135	18.7	1.0190	25.9	1.0245	33.1	1.0300	40.2
1.0026	4.5	1.0081	11.6	1.0136	18.8	1.0191	26.0	1.0246	33.2	1.0301	40.3
1.0027	4.6	1.0082	11.8	1.0137	19.0	1.0192	26.1	1.0247	33.3	1.0302	40.4
1.0028	4.7	1.0083	11.9	1.0138	19.1	1.0193	26.3	1.0248	33.5	1.0303	40.6
1.0029	4.8	1.0084	12.0	1.0139	19.2	1.0194	26.4	1.0249	33.6	1.0304	40.7
1.0030	5.0	1.0085	12.2	1.0140	19.3	1.0195	26.5	1.0250	33.7	1.0305	40.8
1.0031	5.1	1.0086	12.3	1.0141	19.5	1.0196	26.7	1.0251	33.8	1.0306	41.0
1.0032	5.2	1.0087	12.4	1.0142	19.6	1.0197	26.8	1.0252	34.0	1.0307	41.1
1.0033	5.4	1.0088	12.6	1.0143	19.7	1.0198	26.9	1.0253	34.1	1.0308	41.2
1.0034	5.5	1.0089	12.7	1.0144	19.9	1.0199	27.1	1.0254	34.2	1.0309	41.4
1.0035	5.6	1.0090	12.8	1.0145	20.0	1.0200	27.2	1.0255	34.4	1.0310	41.5
1.0036	5.8	1.0091	12.9	1.0146	20.1	1.0201	27.3	1.0256	34.5	1.0311	41.6
1.0037	5.9	1.0092	13.1	1.0147	20.3	1.0202	27.5	1.0257	34.6	1.0312	41.7
1.0038	6.0	1.0093	13.2	1.0148	20.4	1.0203	27.6	1.0258	34.8	1.0313	41.9
1.0039	6.2	1.0094	13.3	1.0149	20.5	1.0204	27.7	1.0259	34.9	1.0314	42.0
1.0040	6.3	1.0095	13.5	1.0150	20.6	1.0205	27.8	1.0260	35.0	1.0315	42.1
1.0041	6.4	1.0096	13.6	1.0151	20.8	1.0206	28.0	1.0261	35.1	1.0316	42.3
1.0042	6.6	1.0097	13.7	1.0152	20.9	1.0207	28.1	1.0262	35.3	1.0317	42.4
1.0043	6.7	1.0098	13.9	1.0153	21.0	1.0208	28.2	1.0263	35.4	1.0318	42.5
1.0044	6.8	1.0099	14.0	1.0154	21.2	1.0209	28.4	1.0264	35.5	1.0319	42.7
1.0045	6.9	1.0100	14.1	1.0155	21.3	1.0210	28.5	1.0265	35.7	1.0320	42.8

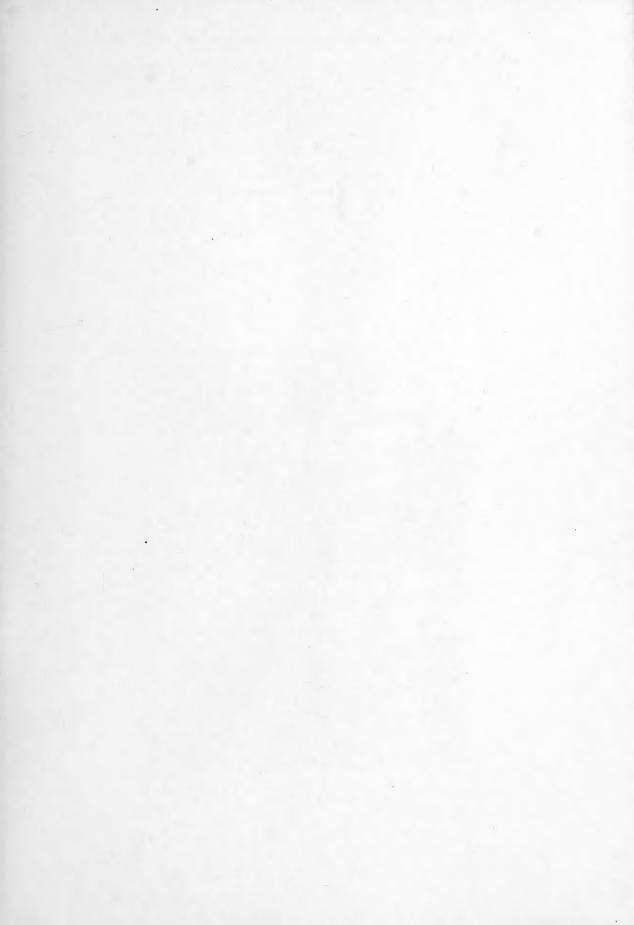
Sea Water Density at Various Temperatures

The purpose of this graph is to provide the density of sea water at any temperature apt to be encountered when the density at the standard temperature of 59°F. (15°C.) is known. It is intended primarily for use with this density publication which gives densities at 59°F. and with Coast and Geodetic Survey Special Publication No. 278 which gives sea water temperatures for the same stations.

To convert a density at 59°F. to density at another temperature, enter the graph horizontally from the left with the known density and downward from the top with the desired temperature; the position of the point of intersection with respect to the curves gives the density at the desired temperature. Interpolate between curves when necessary. For example, by this method, water having a density of 1.0162 at 59°F. is found to have a density of 1.0124 at 85°F.

The densities are referred to the density of fresh water at 4°C. (39.2°F.) as unity.





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